U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-288 998

Environmental Requirements and Pollution Tolerance of Ephemeroptera

Florida Agricultural and Mechanical Univ, Tallahassee

Prepared for

Environmental Monitoring and Support Lab -Cincinnati, OH

Oct 78

United States
Environmental Protection
Agency

Environmental Monitoring and Support
Laboratory
Cincinnati OH 45268

EPA-600/4-78-061
October 1978

PB 288998

Research and Development

EPA

Environmental Requirements and Pollution Tolerance of Ephemeroptera

REPRODUCED BY
NATIONAL TECHNICAL
INFORMATION SERVICE
U. S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

RESEARCH REPORTING SERIES

Research reports of the Office of Research and Development, U.S. Environmental Protection Agency, have been grouped into nine series. These nine broad categories were established to facilitate further development and application of environmental technology. Elimination of traditional grouping was consciously planned to foster technology transfer and a maximum interface in related fields. The nine series are:

1. Environmental Health Effects Research
2. Environmental Protection Technology
3. Ecological Research
4. Environmental Monitoring
5. Socioeconomic Environmental Studies
6. Scientific and Technical Assessment Reports (STAR)
7. Interagency Energy-Environment Research and Development
8. "Special" Reports
9. Miscellaneous Reports

This report has been assigned to the ENVIRONMENTAL MONITORING series. This series describes research conducted to develop new or improved methods and instrumentation for the identification and quantification of environmental pollutants at the lowest conceivably significant concentrations. It also includes studies to determine the ambient concentrations of pollutants in the environment and/or the variance of pollutants as a function of time or meteorological factors.

This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.

TECHNICAL REPORT DATA
(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA-600/4-78-061	2.	3. RECIPIENT'S ACCESSION NO. PB288998
4. TITLE AND SUBTITLE ENVIRONMENTAL REQUIREMENTS AND POLLUTION TOLERANCE OF EPHEMEROPTERA		5. REPORT DATE October 1978 issuing date
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Michael D. Hubbard and William L. Peters		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS Laboratory of Aquatic Entomology Florida A&M University Tallahassee, Florida 32307		10. PROGRAM ELEMENT NO. PE 1BD612
		11. CONTRACT/GRANT NO. R-803426-01
12. SPONSORING AGENCY NAME AND ADDRESS Environmental Monitoring & Support Lab. - Cinn, OH Office of Research & Development U.S. Environmental Protection Agency Cincinnati, Ohio 45268		13. TYPE OF REPORT AND PERIOD COVERED Final
		14. SPONSORING AGENCY CODE EPA/600/06

15. SUPPLEMENTARY NOTES

16. ABSTRACT

Data on the environmental requirements and pollution tolerance of 400 species of mayflies (Insecta:Ephemeroptera) from the United States and Canada were compiled from 200 sources. The following ecological parameters were considered: pH, nutrients, organic pollution, oxygen concentration, temperature, turbidity, current, general and specific habitats, season of emergence, feeding behavior, and geographical distribution. It is suggested that this compilation be used as a guide to assist in evaluating data on macroinvertebrates collected in ambient water monitoring and studies of the effects of pollution on aquatic life.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Indicator Species Aquatic Biology Water Quality Environmental Engineering Benthos Ecology Freshwater	Ephemeroptera Mayflies Nymphs Pollution Tolerance Aquatic Insects	6C 6F

18. DISTRIBUTION STATEMENT RELEASE TO PUBLIC	19. SECURITY CLASS *(This Report)* UNCLASSIFIED	21. NO. OF PAGES 469
	20. SECURITY CLASS *(This page)* UNCLASSIFIED	22. PRICE PC A20 / MF A01

EPA Form 2220-1 (9-73)

U. S. GOVERNMENT PRINTING OFFICE: 1978-657-060/1505 Region No. 5-II

EPA-600/4-78-061
October 1978

ENVIRONMENTAL REQUIREMENTS AND POLLUTION TOLERANCE OF EPHEMEROPTERA

by

Michael D. Hubbard and William L. Peters
Laboratory of Aquatic Entomology
Florida A&M University
Tallahassee, Florida 32307

Grant No. R803426

Project Officer

Donald J. Klemm
Aquatic Biology Section
Environmental Monitoring and Support Laboratory
Cincinnati, Ohio 45268

ENVIRONMENTAL MONITORING AND SUPPORT LABORATORY
OFFICE OF RESEARCH AND DEVELOPMENT
U.S. ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

1·A

DISCLAIMER

This report has been reviewed by the Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the U.S. Environmental Protection Agency, nor does mention of trade names or commerical products constitute endorsement or recommendation for use.

FOREWORD

Environmental measurements are required to determine the quality of ambient water, the character of effluents, and the effects of pollutants on aquatic life. The Environmental Monitoring and Support Laboratory - Cincinnati conducts research to develop, evaluate, and promulgate methods to:

- * Measure the presence and concentration of physical, chemical, and radiological pollutants in water, wastewater, bottom sediments, and solid waste.
- * Concentrate, recover, and identify enteric viruses, bacteria, other microorganisms in water.
- * Measure the effects of pollution on freshwater, estuarine, and marine organisms, including the phytoplankton, zooplankton, periphyton, macrophyton, macroinvertebrates, and fish.
- * Automate the measurement of physical, chemical, and biological quality of water.
- * Conduct an Agency-wide quality assurance program to assure standardization and quality control of systems for monitoring water and wastewater.

The effectiveness of measures taken to protect the biological integrity of the Nation's surface waters is dependent upon our knowledge of the environmental requirements of aquatic organisms and our understanding of the complex relationships that prevail in aquatic ecosystems. This study focuses on an important group of aquatic insects--the Ephemeroptera (mayflies). The nymphs of mayflies occur in all types of freshwater and are important components of aquatic food-webs. Mayfly nymphs are generally considered pollution sensitive, but some species have been found to be tolerant to specific kinds of pollution. The nymphs and adults are also important in the diets of many fish species.

This report is the third in a series of reports in preparation on the environmental requirements and pollution tolerance of aquatic organisms. Water quality profiles have been developed to serve as companions to the EPA biological methods manual and identification manuals to assist biologists in evaluating data collected during studies concerning the effects of toxic substances and other pollutants on the structure of indigenous communities of aquatic organisms.

Dwight G. Ballinger
Director
Environmental Monitoring and
Support Laboratory - Cincinnati

ABSTRACT

Data on the environmental requirements and pollution tolerance of 400 species of mayflies (Insecta: Ephemeroptera) from the United States and Canada were compiled from 200 sources. The following ecological parameters were considered: pH, nutrients, organic pollution, oxygen concentration, temperature, turbidity, current, general and specific habitats, season of emergence, feeding behavior, and geographical distribution. It is suggested that this compilation be used as a guide to assist in evaluating data on macroinvertebrates collected in ambient water monitoring and studies of the effects of pollution on aquatic life.

CONTENTS

Foreword iii

Abstract iv

Acknowledgements vi

1. Introduction 1

2. Definitions of Ecological Parameters 3

3. Species Included in this Compilation 7

4. Literature Cited and Selected References Used in the Compilation of Ecological Data. 24

5. Selected References for Mayfly Ecology Profiles 38

6. Families and Subfamilies of Species Included. 52

7. Ecological Profiles for 400 Species of Ephemeroptera. 53

ACKNOWLEDGEMENTS

We are indebted to the many researchers from whose work much of the ecological data in this compilation was drawn. This work would not have been possible without their efforts. Karen Lasher assisted with a portion of the typing.

SECTION 1

INTRODUCTION

Mayflies are one of the most important groups of aquatic insects and spend the major part of their lives as nymphs in the water, leaving it only to mate and lay eggs. They often tolerate only an extremely narrow range of environmental conditions and may be quite sensitive to small changes in their immediate environment. The absence, or presence, of a particular species in a body of water can often yield much information about the quality and environmental characteristics of that water if the biology of the species is adequately known. With growing concern for and interest in the quality of aquatic systems, increasing attention has recently been directed to these organisms and their possible use as biotic indicators of water quality. For this reason this book has been conceived as an aid to help biologists focus their attention on the relationship between mayflies and their aquatic environment and facilitate studies on water quality using them as biotic indicators.

This report is intended to be used as a source of data on the water quality requirements and pollution tolerance of the Ephemeroptera. It is not intended to be a definitive work and does not include information from the total available literature. Instead, we have tried to include representative examples of the literature on mayflies and provide a starting point for further investigation by the interested reader. Because of the nature of the literature on Ephemeroptera, much leeway had to be taken in the interpretation of the data contained in that literature. The wise user will refer to the primary literature to determine the extent of the leeway in interpretation. One must also bear in mind that the ecological parameter ranges given may not be outer limits, but may merely reflect sampling bias, and that the true ecological tolerances of the organism may be much greater than indicated. Because related species, even within the same genus, often differ in water quality requirements and pollution tolerance, the importance of accurate determination of species cannot be overemphasized.

Keys to the North and Central American families, subfamilies, and genera of mayflies based on the nymphs and adults are given in Edmunds, Jensen, and Berner (1976). These authors also give discussions of nymphal habitats and habits, life histories, and adult habits. A list of all described species for each genus and their general distribution is given.

Few keys to the species of mayflies of the United States and Canada exist. For such keys to be really meaningful, they should have been developed in conjunction with taxonomic revisions of genera. Few such taxonomic revisions exist; those that have been completed include _Ephemerella_ (Allen and Edmunds 1959, 1961a, 1961b, 1962a, 1962b, 1963a, 1963b, 1965). _Stenonema_ (Lewis 1974), and the Ephemeroidea (McCafferty 1975). Useful species keys are also included in Needham, Traver, and Hsu (1935) and the various state studies listed below: Florida (Berner 1950), Illinois (Burks 1953), California (Day 1956), and Idaho (Jensen 1966).

The sources for the data given in the ecological profiles are listed in the "Reference" column at the top of the profile sheet by a number which corresponds to a source in the section entitled "Selected References for Mayfly Ecology Profiles".

This book is intended to be used as a working tool by biologists and has been designed to allow updating of the ecological profile sheets by the user as new information is obtained from the literature or the field. Blank sheets have been included at the end to allow addition of species not originally part of this compilation. It is hoped that this continued updating by individual users will greatly increase the effectiveness of this publication.

SECTION 2

DEFINITIONS OF ECOLOGICAL PARAMETERS

pH -

Acidobiontic - occurring at pH below 5.5.

Acidophilous - occurring at pH between 5.5 and 7.

Neutral - occurring around pH 7.

Alkaliphilous - occurring at pH between 8.5 and 7.

Alkalibiontic - occurring at pH above 8.5.

Indifferent - occurring in both acidic and alkaline waters.

Nutrient -

Eutrophic - occurring in waters with high nutrient concentrations.

Mesotrophic - occurring in waters with moderate nutrient concentrations.

Oligotrophic - occurring in waters low in nutrient concentrations.

Dystrophic - occurring in water rich in humic material

Organics -

Saprophilic - occurring in organically polluted waters.

Facultative - occurring in both polluted and clean waters.

Saproxenous - occurring in clean to slightly polluted waters.

Saprophobic - occurring in waters that are not polluted.

O_2 -

Euoxyphilous - occurring in water having high oxygen concentration [saturated].

Mesoxyphilous - occurring in water having moderate oxygen concentration.

Oligoxyphilous - occurring in water having low oxygen concentration.

Temperature -

Euthermal - warm-water forms, occurring at temperatures greater than 30 °C.

Mesothermal - temperate-water forms, occurring at temperatures between 15 °C and 30 °C.

Oligothermal - cold-water forms, occurring at temperatures below 15 °C.

Stenothermal - occurring over a temperature range of no greater than 5 °C.

Metathermal - occurring over a temperature range of 5 °C to 15 °C.

Eurythermal - occurring over a temperature range of 15 °C or greater.

Turbidity -

Eulichtophilous - occurring in clear water.

Mesolichtophilous - occurring in moderately turbid water

Polylichtophilous - occurring over a wide range of turbidity.

Oligolichtophilous - occurring in highly turbid water.

Current -

Limnobiontic - usually occurring in standing water.

Limnophilous - usually occurring in water with at most a slight current.

Indifferent - occurring in both flowing and standing waters.

Rheophilous - usually occurring in water with a slight current.

Rheobiontic - usually occurring in water with a faster current.

General Habitat -

Lake - occurring in large inland bodies of standing water.

Pond - occurring in small bodies of standing water.

River - occurring in larger flowing waters.

Stream - occurring in smaller flowing waters.

Other - occurring in other types of aquatic habitats [see note column].

Specific Habitat -

Epibenthic - occurring on, but not penetrating, the substrate.

Embenthic - occurring in (penetrating) the substrate.

Epipelic - occurring on (or in) mud and silt.

Episabulic - occurring on (or in) sand.

Epilithic - occurring on (or under or between) rocks or gravel.

Epixylous - occurring on (or in) wood.

Epiphytic - occurring on (or in) plants.

Emergence -

Winter - sexually mature form present in winter.

Spring - sexually mature form present in spring.

Summer - sexually mature form present in summer.

Autumn - sexually mature form present during autumn.

Feeding Behavior -

Predator - feeds on other animal forms.

Herbivore - feeds on plants.

Omnivore - feeds on a variety of foods.

Scavenger - feeds on non-living organic matter and/or bacteria.

Geographic Distribution -

Regions I through X - 48 contiguous states, Figure 1, page 23.

Region XI - Canada east of Manitoba.

Region XII - Canada west of Ontario.

See note column for other geographic distributions.

SECTION 3

SPECIES INCLUDED IN THIS COMPILATION

Ameletus cooki McDunnough
Ameletus dissitus Eaton
Ameletus facilis Day
Ameletus imbellus Day
Ameletus ludens Needham
Ameletus oregonensis McDunnough
Ameletus similior McDunnough
Ameletus sparsatus McDunnough
Ameletus validus McDunnough
Ameletus velox Dodds
Ameletus walleyi Harper
Ametropus albrighti Traver
Ametropus ammophilus Allen & Edmunds
Ametropus neavei McDunnough
Analetris eximia Edmunds
Anepeorus rusticus McDunnough
Apobaetis indeprensus Day
Arthroplea bipunctata McDunnough
Baetis alius Day
Baetis amplus (Traver)
Baetis australis Traver

Baetis *bicaudatus* Dodds

Baetis *brunneicolor* McDunnough

Baetis *bundyae* Lehmkuhl

Baetis *caurinus* Edmunds and Allen

Baetis *diablus* Day

Baetis *ephippiatus* Traver

Baetis *flavistriga* McDunnough

Baetis *frondalis* McDunnough

Baetis *garcianus* Traver

Baetis *hageni* Eaton

Baetis *hiemalis* Leonard

Baetis *insignificance* McDunnough

Baetis *intercalaris* McDunnough

Baetis *intermedius* Dodds

Baetis *leechi* Day

Baetis *moffatti* Dodds

Baetis *nanus* McDunnough

Baetis *parvus* Dodds

Baetis *phoebus* McDunnough

Baetis *phyllis* Burks

Baetis *posticatus* (Say)

Baetis *propinquus* (Walsh)

Baetis *pygmaeus* (Hagen)

Baetis *quebecensis* Hubbard

Baetis *quilleri* Dodds

Baetis *spiethi* Berner

Baetis sulfurosus Day
Baetis tricaudatus Dodds
Baetis vagans McDunnough
Baetisca bajkovi Neave
Baetisca becki Schneider and Berner
Baetisca callosa Traver
Baetisca carolina Traver
Baetisca columbiana Edmunds
Baetisca escambiensis Berner
Baetisca gibbera Berner
Baetisca laurentina McDunnough
Baetisca obesa (Say)
Baetisca rogersi Berner
Baetodes arizonensis Koss
Baetodes edmundsi Koss
Baetodes inermis Cohen and Allen
Borinquena carmencita Traver
Borinquena contradicens Traver
Brachycercus lacustris (Needham)
Brachycercus maculatus Berner
Caenis anceps Traver
Caenis diminuta Walker
Caenis forcipata McDunnough
Caenis hilaris (Say)
Caenis latipennis Banks

Caenis simulans McDunnough

Callibaetis americanus Banks

Callibaetis brevicostatus Daggy

Callibaetis coloradensis Banks

Callibaetis completus Banks

Callibaetis doddsi Traver

Callibaetis ferrugineus (Walsh)

Callibaetis floridanus Banks

Callibaetis fluctuans (Walsh)

Callibaetis montanus Eaton

Callibaetis nigritus Banks

Callibaetis pretiosus Banks

Callibaetis semicostatus Banks

Callibaetis signatus Banks

Callibaetis skokianus Needham

Centroptilum bellum McDunnough

Centroptilum bifurcatum McDunnough

Centroptilum convexum Ide

Centroptilum fragile McDunnough

Centroptilum hobbsi Berner

Centroptilum infrequens McDunnough

Centroptilum oreophilum Edmunds

Centroptilum quaesitum McDunnough

Centroptilum rufostrigatum McDunnough

Centroptilum selanderorum Edmunds

Centroptilum viridocularis Berner

Choroterpes albiannulata McDunnough

Choroterpes basalis (Banks)

Choroterpes crocatus Allen

Choroterpes fusca Spieth

Choroterpes hubbelli Berner

Choroterpes inornata Eaton

Choroterpes kossi Allen

Choroterpes mexicanus Allen

Cinygma dimicki McDunnough

Cinygma integrum Eaton

Cinygmula mimus (Eaton)

Cinygmula par (Eaton)

Cinygmula ramaleyi (Dodds)

Cinygmula reticulata McDunnough

Cinygmula subaequalis (Banks)

Cinygmula tarda (McDunnough)

Cloeodes consignatus Traver

Cloeodes maculipes Traver

Cloeon implicatum McDunnough

Cloeon ingens McDunnough

Cloeon mendax (Walsh)

Cloeon rubropictum McDunnough

Cloeon vicinum (Hagen)

Dactylobaetis cepheus Traver and Edmunds

Dolania americana Edmunds and Traver

Edmundsius agilis Day

Epeorus albertae (McDunnough)

Epeorus deceptivus (McDunnough)

Epeorus fragilis (Morgan)

Epeorus frisoni (Burks)

Epeorus grandis (McDunnough)

Epeorus hesperus (Banks)

Epeorus longimanus (Eaton)

Epeorus margarita Edmunds and Allen

Epeorus namatus (Burks)

Epeorus pleuralis (Banks)

Epeorus subpallidus (Traver)

Epeorus vitreus (Walker)

Ephemera blanda Traver

Ephemera guttulata Pictet

Ephemera simulans Walker

Ephemera traverae Spieth

Ephemera triplex Traver

Ephemera varia Eaton

Ephemerella aestiva McDunnough

Ephemerella allegheniensis Traver

Ephemerella alleni Jensen and Edmunds

Ephemerella altana Allen

Ephemerella argo Burks

Ephemerella attenuata McDunnough

Ephemerella aurivillii (Bengtsson)

Ephemerella berneri Allen and Edmunds

Ephemerella bicolor Clemens

Ephemerella carolina Berner and Allen

Ephemerella cascadia Allen and Edmunds

Ephemerella catawba Traver

Ephemerella choctawhatchee Berner

Ephemerella coloradensis Dodds

Ephemerella conestee Traver

Ephemerella cornuta Morgan

Ephemerella cornutella McDunnough

Ephemerella coxalis McDunnough

Ephemerella crenula Allen and Edmunds

Ephemerella deficiens Morgan

Ephemerella delantala Mayo

Ephemerella doddsi Needham

Ephemerella doris Traver

Ephemerella dorothea Needham

Ephemerella edmundsi Allen

Ephemerella excrucians Walsh

Ephemerella flavilinea McDunnough

Ephemerella frisoni McDunnough

Ephemerella funeralis McDunnough

Ephemerella grandis Eaton

Ephemerella hecuba Eaton
Ephemerella heterocaudata McDunnough
Ephemerella hispida Allen and Edmunds
Ephemerella hystrix Traver
Ephemerella inconstans Traver
Ephemerella inermis Eaton
Ephemerella infrequens McDunnough
Ephemerella invaria (Walker)
Ephemerella jacobi McDunnough
Ephemerella lacustris Allen and Edmunds
Ephemerella lata Morgan
Ephemerella levis Day
Ephemerella lita Burks
Ephemerella lodi Mayo
Ephemerella longicornis Traver
Ephemerella lutulenta Clemens
Ephemerella maculata Traver
Ephemerella margarita Needham
Ephemerella micheneri Traver
Ephemerella minimella McDunnough
Ephemerella mollitia Seeman
Ephemerella needhami McDunnough
Ephemerella ora Burks
Ephemerella pelosa Mayo
Ephemerella prudentalis McDunnough

Ephemerella *rama* Allen

Ephemerella *rotunda* Morgan

Ephemerella *septentrionalis* McDunnough

Ephemerella *sequoia* Allen and Collins

Ephemerella *serrata* Morgan

Ephemerella *serratoides* McDunnough

Ephemerella *simila* Allen and Edmunds

Ephemerella *simplex* McDunnough

Ephemerella *soquele* Day

Ephemerella *sordida* McDunnough

Ephemerella *spiculosa* Berner and Allen

Ephemerella *spinifera* Needham

Ephemerella *subvaria* McDunnough

Ephemerella *temporalis* McDunnough

Ephemerella *teresa* Traver

Ephemerella *tibialis* McDunnough

Ephemerella *trilineata* Berner

Ephemerella *tuberculata* Morgan

Ephemerella *velmae* Allen and Edmunds

Ephemerella *verruca* Allen and Edmunds

Ephemerella *walkeri* Eaton

Ephemerella *wayah* Traver

Ephoron *album* (Say)

Ephoron *leukon* Williamson

Habrophlebia *vibrans* Needham

Habrophlebiodes americana (Banks)
Habrophlebiodes brunneipennis Berner
Hagenulus rangelae Peters
Heptagenia aphrodite McDunnough
Heptagenia criddlei McDunnough
Heptagenia diabasia Burks
Heptagenia elegantula (Eaton)
Heptagenia flavescens (Walsh)
Heptagenia hebe McDunnough
Heptagenia juno McDunnough
Heptagenia lucidipennis (Clemens)
Heptagenia maculipennis Walsh
Heptagenia marginalis Banks
Heptagenia patoka Burks
Heptagenia pulla (Clemens)
Heptagenia simplicioides McDunnough
Heptagenia solitaria McDunnough
Heptagenia thetis Traver
Heterocloeon curiosum (McDunnough)
Hexagenia atrocaudata McDunnough
Hexagenia bilineata (Say)
Hexagenia limbata (Serville)
Hexagenia munda Eaton
Hexagenia rigida McDunnough
Homoeoneuria ammophila (Spieth)

Homoeoneuria dolani Edmunds, Berner and Traver

Ironodes lepidus Traver

Ironodes nitidus (Eaton)

Isonychia bicolor (Walker)

Isonychia christina Traver

Isonychia fattigi Traver

Isonychia notata Traver

Isonychia pictipes Traver

Isonychia rufa McDunnough

Isonychia sadleri Traver

Isonychia sicca (Walsh)

Isonychia tusculanensis Berner

Isonychia velma Needham

Lachlania dencyanna Koss

Lachlania powelli Edmunds

Leptohyphes apache Allen

Leptohyphes baumanni Kilgore and Allen

Leptohyphes dolani Allen

Leptohyphes mirus Allen

Leptohyphes phalarobranchus Kilgore and Allen

Leptohyphes quercus Kilgore and Allen

Leptohyphes robacki Allen

Leptophlebia bradleyi Needham

Leptophlebia cupida (Say)

Leptophlebia gravastella (Eaton)

Leptophlebia intermedia (Traver)

Leptophlebia nebulosa (Walker)

Litobranchia recurvata (Morgan)

Metretopus borealis (Eaton)

Neoephemera compressa Berner

Neoephemera purpurea (Traver)

Neoephemera youngi Berner

Neohagenulus julio Traver

Neohagenulus luteolus Traver

Neohagenulus tinctus Traver

Paracloeodes abditus Day

Paracloeodes minutus (Daggy)

Paracloeodes portoricensis (Traver)

Paraleptophlebia adoptiva (McDunnough)

Paraleptephlebia altana Kilgore and Allen

Paraleptophlebia assimilis (Banks)

Paraleptophlebia bicornuta (McDunnough)

Paraleptophlebia debilis (Walker)

Paraleptophlebia falcula Traver

Paraleptophlebia gregalis (Eaton)

Paraleptophlebia guttata (McDunnough)

Paraleptophlebia helena Day

Paraleptophlebia heteronea (McDunnough)

Paraleptophlebia jeanae Berner

Paraleptophlebia memoralis (Eaton)

Paraleptophlebia moerens (McDunnough)

Paraleptophlebia mollis (Eaton)

Paraleptophlebia packii (Needham)

Paraleptophlebia praepedita (Eaton)

Paraleptophlebia quisquilia Day

Paraleptophlebia temporalis (McDunnough)

Paraleptophlebia vaciva (Eaton)

Paraleptophlebia volitans (McDunnough)

Paraleptophlebia zayante Day

Parameletus columbiae McDunnough

Parameletus croesus (McDunnough)

Parameletus midas (McDunnough)

Pentagenia vittigera (Walsh)

Potamanthus diaphanus Needham

Potamanthus distinctus Traver

Potamanthus myops (Walsh)

Potamanthus neglectus Traver

Potamanthus rufous Argo

Potamanthus verticis (Say)

Potamanthus walkeri Ide

Pseudocloeon alachua Berner

Pseudocloeon anoka Daggy

Pseudocloeon bimaculatum Berner

Pseudocloeon carolina (Banks)

Pseudocloeon chlorops (McDunnough)

Pseudocloeon dubium (Walsh)

Pseudocloeon elliotti Daggy

Pseudocloeon ida Daggy

Pseudocloeon parvulum McDunnough
Pseudocloeon punctiventris (McDunnough)
Pseudocloeon turbidum McDunnough
Pseudocloeon virile (McDunnough)
Rhithrogena fuscifrons Traver
Rhithrogena futilis McDunnough
Rhithrogena hageni Eaton
Rhithrogena impersonata (McDunnough)
Rhithrogena jejuna Eaton
Rhithrogena morrisoni (Banks)
Rhithrogena pellucida Daggy
Rhithrogena robusta (Dodds)
Rhithrogena undulata (Banks)
Siphlonisca aerodromia Needham
Siphlonurus alternatus (Say)
Siphlonurus columbianus McDunnough
Siphlonurus luridipennis (Burmeister)
Siphlonurus mirus Eaton
Siphlonurus occidentalis Eaton
Siphlonurus phyllis McDunnough
Siphlonurus quebecensis (Provancher)
Siphlonurus rapidus McDunnough
Siphlonurus typicus (Eaton)
Siphloplecton basale (Walker)
Siphloplecton costalense Speith
Siphloplecton interlineatum (Walsh)

Siphloplecton speciosum Traver

Spinadis wallacei Edmunds and Jensen

Stenacron candidum (Traver)

Stenacron carolina (Banks)

Stenacron floridense (Lewis)

Stenacron gildersleevei (Traver)

Stenacron interpunctatum (Say)

Stenacron minnetonka (Daggy)

Stenacron pallidum (Traver)

Stenonema annexum Traver

Stenonema ares Burks

Stenonema bipunctatum (McDunnough)

Stenonema carlsoni Lewis

Stenonema exiguum Traver

Stenonema femoratum (Say)

Stenonema fuscum (Clemens)

Stenonema integrum (McDunnough)

Stenonema ithaca (Clemens and Leonard)

Stenonema lepton Burks

Stenonema luteum (Clemens)

Stenonema mediopunctatum (McDunnough)

Stenonema modestum (Banks)

Stenonema nepotellum (McDunnough)

Stenonema placitum (Banks)

Stenonema pudicum (Hagen)

Stenonema pulchellum (Walsh)

Stenonema *quinquespinum* Lewis
Stenonema *rubromaculatum* (Clemens)
Stenonema *rubrum* (McDunnough)
Stenonema *smithae* Traver
Stenonema *terminatum* (Walsh)
Stenonema *tripunctatum* (Banks)
Stenonema *vicarium* (Walker)
Thraulodes *brunneus* Koss
Thraulodes *salinus* Kilgore and Allen
Tortopus *incertus* (Traver)
Tortopus *primus* (McDunnough)
Traverella *albertana* (McDunnough)
Traverella *castanea* Kilgore and Allen
Traverella *lewisi* Allen
Traverella *presidiana* (Traver)
Tricorythodes *albilineatus* Berner
Tricorythodes *allectus* (Needham)
Tricorythodes *atratus* (McDunnough)
Tricorythodes *condylus* Allen
Tricorythodes *corpulentus* Kilgore and Allen
Tricorythodes *dimorphus* Allen
Tricorythodes *edmundsi* Allen
Tricorythodes *minutus* Traver

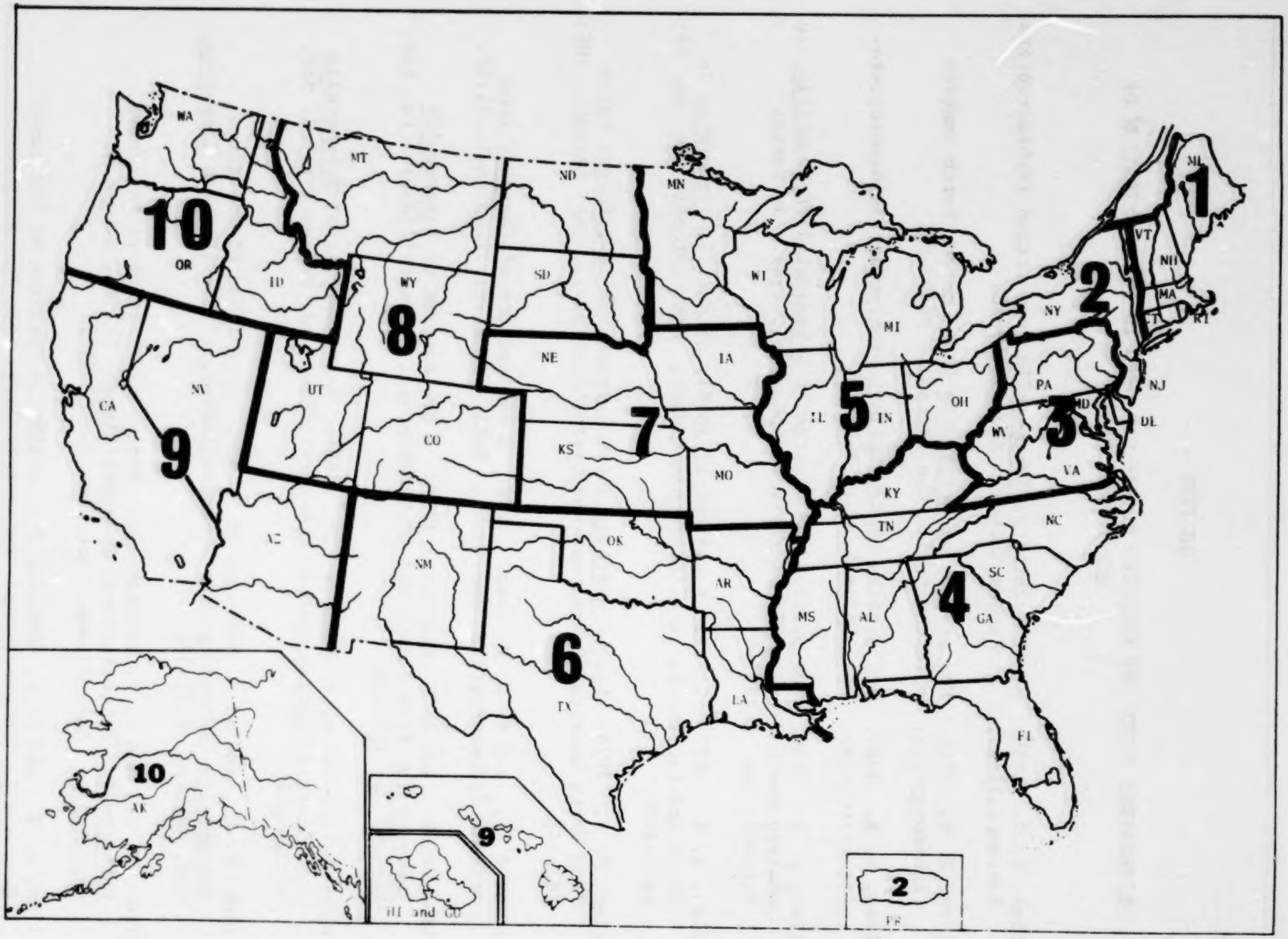

Figure 1. U.S. Environmental Protection Agency regions.

SECTION 4

LITERATURE CITED AND SELECTED REFERENCES USED IN THE COMPILATION OF ECOLOGICAL DATA

Allen, R. K. 1959. A new species of *Ephemerella* from Oregon (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 32:59-60.

Allen, R. K. 1966. New species of *Heptagenia* from western North America (Ephemeroptera: Heptageniidae). Can. Entomol. 98:80-82.

Allen, R. K. 1967. New species of New World Leptohyphinae (Ephemeroptera: Tricorythidae). Can. Entomol. 99:350-375.

Allen, R. K. 1968. New species and records of *Ephemerella* (*Ephemerella*) in western North America (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 41:557-567.

Allen, R. K. 1973. Generic revisions of mayfly nymphs. 1. *Traverella* in North and Central America (Leptophlebiidae). Ann. Entomol. Soc. Am. 66: 1287-1295.

Allen, R. K. 1974. *Neochoroterpes*, a new subgenus of *Choroterpes* Eaton from North America (Ephemeroptera: Leptophlebiidae). Can. Entomol. 106: 161-168.

Allen, R. K., and E. S. M. Chao. 1972. A new species of *Baetodes* from Arizona (Ephemeroptera: Baetidae). Bull. So. Calif. Acad. Sci. 71:52.

Allen, R. K., and D. L. Collins. 1968. A new species of *Ephemerella* (*Serratella*) from California (Ephemeroptera: Ephemerellidae). Pan-Pac. Entomol. 44:122-124.

Allen, R. K., and G. F. Edmunds, Jr. 1958. A new species of *Ephemerella* from Georgia (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 31:222-224.

Allen, R. K., and G. F. Edmunds, Jr. 1959. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). I. The subgenus *Timpanoga*. Can. Entomol. 9:51-58.

Allen, R. K., and G. F. Edmunds, Jr. 1961a. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). II. The subgenus *Caudatella*. Ann. Entomol. Soc. Am. 54:603-612.

Allen, R. K., and G. F. Edmunds, Jr. 1961b. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). III. The subgenus

Attenuatella. J. Kansas Entomol. Soc. 34:161-173.

Allen, R. K., and G. F. Edmunds, Jr. 1962a. A revision of the genus Ephemerella (Ephemeroptera: Ephemerellidae). IV. The subgenus Danella. J. Kansas Entomol. Soc. 35:333-338.

Allen, R. K., and G. F. Edmunds, Jr. 1962b. A revision of the genus Ephemerella (Ephemeroptera: Ephemerellidae). V. The subgenus Drunella in North America. Misc. Publ. Entomol. Soc. Am. 3:145-179.

Allen, R. K., and G. F. Edmunds, Jr. 1963a. A revision of the genus Ephemerella (Ephemeroptera: Ephemerellidae). VI. The subgenus Serratella in North America. Ann. Entomol. Soc. Am. 56:583-600.

Allen, R. K., and G. F. Edmunds, Jr. 1963b. A revision of the genus Ephemerella (Ephemeroptera:Ephemerellidae). VII. The subgenus Eurylophella. Can. Entomol. 95:597-623.

Allen, R. K., and G. F. Edmunds, Jr. 1965. A revision of the genus Ephemerella (Ephemeroptera: Ephemerellidae). VIII. The subgenus Ephemerella in North America. Misc. Publ. Entomol. Soc. Am. 4:243-282.

Allen, R. K., and G. F. Edmunds, Jr. 1976. A revision of the genus Ametropus in North America (Ephemeroptera: Ametropididae). J. Kansas Entomol. Soc. 49:625-635.

Allen, R. K., and S. S. Roback. 1969. New species and records of New World Leptohyphinae (Ephemeroptera: Tricorythidae). J. Kansas Entomol. Soc. 42:372-379.

Alexander, C. P. 1925. An entomological survey of the Salt Fork of the Vermilion River in 1921, with a bibliography of aquatic insects. Bull. Illinois Nat. Hist. Surv. 15:435-535.

Argo, V. N. 1927. The North American species of the genus Potamanthus, with a description of a new species. J. New York Entomol. Soc. 35:319-329.

Argyle, D. W., and G. F. Edmunds, Jr. 1962. Mayflies (Ephemeroptera) of the Curecanti Reservoir basins, Gunnison River, Colorado. Univ. Utah Anthropol. Pap. 59:178-189.

Armitage, K. B. 1961. Distribution of riffle insects of the Firehole River, Wyoming. Hydrobiologia 17:152-174.

Banks, N. 1900. New genera and species of Nearctic neuropteroid insects. Trans. Am. Entomol. Soc. 26:239-259.

Banks, N. 1903. A new species of Habrophlebia. Entomol. News 14:235.

Banks, N. 1904. Neuropteroid insects from New Mexico. Trans. Am. Entomol. Soc. 30:97-110, 1 pl.

Banks, N. 1907. A new mayfly of the genus Caenis. Entomol. News 18:13-14.

Banks, N. 1908a. Neuropteroid insects- Notes and descriptions. Trans. Am. Entomol. Soc. 34:255-267, 1 pl.

Banks, N. 1908b. A list of neuropteroid insects from North Carolina. Proc. Entomol. Soc. Wash. 9:149-156.

Banks, N. 1910. Notes on our eastern species of the May-fly genus Heptagenia. Can. Entomol. 42.197-202.

Banks, N. 1914. New neuropteroid insects, native and exotic. Proc. Acad. Nat. Sci. Philadelphia 66:608-632, 1 pl.

Banks, N. 1918. New neuropteroid insects. Bull. Mus. Comp. Zool. 62:1-24, 2 pl.

Banks, N. 1924. Descriptions of new neuropteroid insects. Bull. Mus. Comp. Zool. 65:419-455, 4 pl.

Beck, W. M., Jr. 1970. Stream monitoring: Biological parameters. Florida Eng. Indus. Exp. Stat., Bull. Ser. 135:60-63.

Bell, H. L. 1971. Effect of low pH on the survival and emergence of aquatic insects. Water Res. 5:313-319.

Bell, H. L., and A. V. Nebeker. 1969. Preliminary studies on the tolerance of aquatic insects to low pH. J. Kansas Entomol. Soc. 42:230-236.

Berner, L. 1940a. Baetisca rogersi, a new mayfly from northern Florida. Can. Entomol. 72:156-160.

Berner, L. 1940b. Baetine mayflies from Florida (Ephemeroptera). Florida Entomol. 23:33-45, 49-62.

Berner, L. 1946. New species of Florida mayflies (Ephemeroptera). Florida Entomol. 28:60-82.

Berner, L. 1948. A new species of mayfly from Tennessee. Entomol. News 59:117-120.

Berner, L. 1949. A report on two mayfly gynandromorphs. Florida Entomol. 32:105-109.

Berner, L. 1950. The mayflies of Florida. Univ. Florida Pr., Gainesville. 267 p.

Berner, L. 1953. New mayfly records from Florida and a description of a new species. Florida Entomol. 36:145-149.

Berner, L. 1955a. The southeastern species of Baetisca (Ephemeroptera: Baetiscidae). Quart. J. Florida Acad. Sci. 18:1-19.

Berner, L. 1955b. A new species of Paraleptophlebia from the Southeast (Ephemeroptera, Leptophlebiidae). Proc. Entomol. Soc. Wash. 57:245-247.

Berner, L. 1956. The genus Neoephemera in North America (Ephemeroptera: Neoephemeridae). Ann. Entomol. Soc. Am. 49:33-42.

Berner, L. 1957. A mayfly gynandromorph. Proc. Entomol. Soc. Wash. 59:167-169.

Berner, L. 1958. A list of mayflies from the lower Apalachicola River drainage. Quart. J. Florida Acad. Sci. 21:25-31.

Berner, L. 1959. Newfoundland mayflies (Ephemeroptera). Opuscula Entomol. 24:212-214.

Berner, L., and R. K. Allen. 1961. Southeastern species of the mayfly subgenus Serratella (Ephemerella: Ephemerellidae). Florida Entomol. 44: 149-158.

Berner, L., and W. C. Sloan. 1954. The occurrence of a mayfly nymph in brackish water. Ecology 35:98.

Berry, E. W. 1903. New or hitherto unknown ephemerid nymphs of the eastern United States. Am. Nat. 37:25-31.

Bishop, J. E., and H. B. N. Hynes. 1969. Downstream drift of the invertebrate fauna in a stream ecosystem. Arch. Hydrobiol. 66:56-90.

Brusven, M. A. 1970. Drift periodicity and upstream dispersion of stream insects. J. Entomol. Soc. British Columbia 67:48-59.

Brusven, M. A., and C. MacPhee. 1974. An evaluation of Squoxin on insect drift. Trans. Am. Fish. Soc. 103:362-365.

Burks, B. D. 1946. New heptagenine mayflies. Ann. Entomol. Soc. Am. 39: 607-615.

Burks, B. D. 1947. New species of Ephemerella from Illinois (Ephemeroptera). Can. Entomol. 79:232-236.

Burks, B. D. 1953. The mayflies, or Ephemeroptera, of Illinois. Bull. Illinois Nat. Hist. Surv. 26:1-216.

Carlander, K. D., C. A. Carlson, V. Gooch, and T. Wenke. 1967. Populations of Hexagenia mayfly naiads in Pool 19, Mississippi River, 1959-1963. Ecology 48:873-878.

Carlson, C. A. 1968. Summer bottom fauna of the Mississippi River, above Dam 19, Keokuk, Iowa. Ecology 49:162-169.

Clemens, W. A. 1915a. Rearing experiments and ecology of Georgian Bay Ephemeridae. Contr. Can. Biol. 4:113-128, 2 pl.

Clemens, W. A. 1915b. Mayflies of the Siphlonurus group. Can. Entomol. 47:245-260.

Clemens, W. A. 1917. An ecological study of the mayfly Chirotonetes. Univ. Toronto Stud., Biol. Ser. 17:1-43, 5 pl.

Clemens, W. A. 1922. A parthenogenetic mayfly (Ameletus ludens Needham). Can. Entomol. 54:77-78.

Clemens, W. A., and A. K. Leonard. 1924. On two species of mayflies of the genus Heptagenia. Can. Entomol. 56:17-18.

Clifford, H. F. 1966. Some limnological characteristics of six Ozark streams. Missouri Dept. Conserv., Div. Fish., D-J Series No. 4:1-55.

Clifford, H. F. 1969. Limnological features of a northern brownwater stream, with special reference to the life histories of the aquatic insects. Am. Midl. Nat. 82:578-597.

Cloud, T. J., Jr., and K. W. Stewart. 1974. The drift of mayflies (Ephemeroptera) in the Brazos River, Texas. J. Kansas Entomol. Soc. 47:379-396.

Coffman, W. P., K. W. Cummins, and J. C. Wuycheck. 1971. Energy flow in a woodland stream ecosystem: I. Tissue support trophic structure of the autumnal community. Arch. Hydrobiol. 68:232-276.

Cohen, S. D., and R. K. Allen. 1972. New species of Baetodes from Mexico and Central America (Ephemeroptera: Baetidae). Pan-Pac. Entomol. 48: 123-135.

Coleman, M. J., and H. B. N. Hynes. 1970. The life histories of some Plecoptera and Ephemeroptera in a southern Ontario stream. Can. J. Zool. 48:1333-1339.

Cooke, H. G. 1940. Observations on mating flights of the May-fly Stenonema vicarium (Ephemerida). Entomol. News 51:12-14.

Cooke, H. G. 1942. Mating flights of Isonychia May-flies (Ephemeroptera). Entomol. News 53:249-252.

Cooke, H. G. 1947. Swarm behavior of Hexagenia atrocaudata in relation to temperature and relative humidity (Ephemeroptera). Entomol. News 58: 221-227.

Cooke, H. G. 1952. The occurrence of mass flight movements in Hexagenia occulta (Ephemeroptera). Entomol. News 63:61-66.

Craven, R. E., and B. E. Brown. 1969. Ecology of Hexagenia naiads (Insecta-Ephemeridae) in an Oklahoma reservoir. Am. Midl. Nat. 82: 346-358.

Cummins, K. W., and G. H. Lauff. 1969. The influence of substrate particle size on the microdistribution of stream macrobenthos. Hydrobiologia 34: 145-181.

Daggy, R. H. 1945. New species and previously undescribed naiads of some Minnesota mayflies (Ephemeroptera). Ann. Entomol. Soc. Am. 38:373-396.

Day, W. C. 1952. New species and notes on California mayflies (Ephemeroptera). Pan-Pac. Entomol. 28:17-39.

Day, W. C. 1953. A new mayfly genus from California (Ephemeroptera). Pan-Pac. Entomol. 29:19-24.

Day, W. C. 1954a. New species and notes on California mayflies. II. (Ephemeroptera). Pan-Pac. Entomol. 30:15-29.

Day, W. C. 1954b. New species of California mayflies in the genus Baetis (Ephemeroptera). Pan-Pac. Entomol. 30:29-34.

Day, W. C. 1955. New genera of mayflies from California (Ephemeroptera). Pan-Pac. Entomol. 31:121-137.

Day, W. C. 1956. Ephemeroptera. In Aquatic insects of California, R. L. Usinger, ed. pp:79-105.

Dodds, G. S. 1923. Mayflies from Colorado: Descriptions of certain species and notes on others. Trans. Am. Entomol. Soc. 49:93-114, 2 pl.

Dodds, G. S., and F. L. Hisaw. 1924a. Ecological studies of aquatic insects. I. Adaptations of mayfly nymphs to swift streams. Ecology 5: 137-148, 2 pl.

Dodds, G. S., and F. L. Hisaw. 1924b. Ecological studies of aquatic insects. II. Size of respiratory organs in relation to environmental conditions. Ecology 5:262-271.

Edmunds, G. F., Jr. 1948a. The nymph of Ephoron album (Ephemeroptera). Entomol. News 59:12-14.

Edmunds, G. F., Jr. 1948b. A new Genus of mayflies from western North America (Leptophlebiinae). Proc. Biol. Soc. Wash. 61:141-148.

Edmunds, G. F., Jr. 1951a. Western records of the mayfly genus Stenonema. J. Kansas Entomol. Soc. 24:162.

Edmunds, G. F., Jr. 1951b. New species of Utah mayflies. I. Oligoneuriidae (Ephemeroptera). Proc. Entomol. Soc. Wash. 53:327-331.

Edmunds, G. F., Jr. 1954. New species of Utah mayflies. II. Baetidae, Centroptilum (Ephemeroptera). Proc. Entomol. Soc. Wash. 56:1-4.

Edmunds, G. F., Jr. 1957a. On the life history of Parameletus columbiae

McDunnough (Ephemeroptera). Utah Acad. Proc. 34:25-26.

Edmunds, G. F., Jr. 1957b. *Metretopus borealis* (Eaton) in Canada (Ephemeroptera: Ametropodidae). Can. J. Zool. 35:161-162.

Edmunds, G. F., Jr. 1959. The mayflies of the Glen Canyon Dam area, Colorado River, Utah. Utah Acad. Proc. 36:79-80.

Edmunds, G. F., Jr. 1960a. The mayfly genus *Baetisca* in western North America (Ephemeroptera: Baetiscidae). Pan-Pac. Entomol. 36:102-104.

Edmunds, G. F., Jr. 1960b. The food habits of the nymph of the mayfly *Siphlonurus occidentalis*. Utah Acad. Proc. 37:73-74.

Edmunds, G. F., Jr., and R. K. Allen. 1957. A new species of *Baetis* from Oregon (Ephemeroptera: Baetidae). J. Kansas Entomol. Soc. 30:57-58.

Edmunds, G. F., Jr., and R. K. Allen. 1964. The Rocky Mountain species of *Epeorus* (*Iron*) Eaton (Ephemeroptera: Heptageniidae). J. Kansas Entomol. Soc. 37:275-288.

Edmunds, G. F., Jr., L. Berner, and J. R. Traver. 1958. North American mayflies of the family Oligoneuriidae. Ann. Entomol. Soc. Am. 51:375-382.

Edmunds, G. F., Jr., and S. L. Jensen. 1974. A new genus and subfamily of North American Heptageniidae (Ephemeroptera). Proc. Entomol. Soc. Wash. 76:495-497.

Edmunds, G. F., Jr., S. L. Jensen, and L. Berner. 1976. The mayflies of North and Central America. Univ. Minnesota Pr., Minneapolis. 330 p.

Edmunds, G. F., Jr., and R. W. Koss. 1972. A review of the Acanthametropodinae with a description of a new genus (Ephemeroptera: Siphlonuridae). Pan-Pac. Entomol. 48:136-144.

Edmunds, G. F., Jr., and G. G. Musser. 1960. The mayfly fauna of Green River in the Flaming Gorge Reservoir Basin, Wyoming and Utah. Univ. Utah Anthropol. Pap. 43:111-123.

Edmunds, G. F., Jr., L. T. Nielsen, and J. R. Larsen. 1956. The life history of *Ephoron album* (Say) (Ephemeroptera: Polymitarcidae). Wasmann J. Biol. 14:145-153.

Edmunds, G. F., Jr., and J. R. Traver. 1959. The classification of the Ephemeroptera. I. Ephemeroidea: Behningiidae. Ann. Entomol. Soc. Am. 52:43-51.

Elgmork, K., and O. Saether. 1970. Distribution of invertebrates in a high mountain brook in the Colorado Rocky Mountains. Univ. Colorado Stud., Ser. Biol. 31:1-55.

Eriksen, C. H. 1963. Respiratory regulation in *Ephemera simulans* Walker and *Hexagenia limbata* (Serville) (Ephemeroptera). J. Exp. Biol. 40: 455-467.

Flannagan, J. F. 1971. Toxicity evaluation of trisodium nitrilotriacetate to selected aquatic invertebrates and amphibians. Fish. Res. Bd. Can. Tech. Rep. 258:1-21.

Flannagan, J. F., and G. H. Lawler. 1972. Emergence of caddisflies (Trichoptera) and mayflies (Ephemeroptera) from Heming Lake, Manitoba. Can. Entomol. 104:173-183.

Fremling, C. R. 1960. Biology of a large mayfly, *Hexagenia bilineata* (Say), of the upper Mississippi. Iowa St. Univ. Exp. Stat. Res. Bull. 482:841-852.

Fremling, C. R. 1964. Rhythmic *Hexagenia* mayfly emergences and the environmental factors which influence them. Verh. Intern. Verein. Limnol. 15:912-916.

[Fremling, C. R.] 1970. Mayfly distribution as a water quality index. U.S. Environ. Prot. Agency Water Poll. Contr. Res. Ser. 16030 DQH, p:1-39.

Fremling, C. R., and G. P. Kloek. 1968-1969. Distribution and emergence patterns of mayflies: *Ephemera simulans* (Ephemeroptera: Ephemeridae). J. Minnesota Acad. Sci. 35:102-103.

Frost, S. W. 1967. Mayflies taken at the Archbold Biological Station, Highlands County, Florida. Florida Entomol. 50:281-284.

Gaufin, A. R., R. Chubb, and R. Newell. 1974. Studies on the tolerance of aquatic insects to low oxygen concentrations. Gt. Basin Nat. 34:45-59.

Gaufin, A. R., and S. Hern. 1971. Laboratory studies on tolerance of aquatic insects to heated waters. J. Kansas Entomol. Soc. 44:240-245.

Gilpin, B. R., and M. A. Brusven. 1970. Food habits and ecology of mayflies of the St. Maries River in Idaho. Melanderia 4:19-41.

Hall, C. A. S. 1969. Mortality of the mayfly nymph, *Ephemerella rotunda* (Morgan), at various low dissolved oxygen concentrations. J. Elisha Mitchell Sci. Soc. 85:34-39.

Harper, F. 1970. A new species of *Ameletus* (Ephemeroptera, Siphlonuridae) from southern Ontario. Can. J. Zool. 48:603-604.

Hashagen, K. A., Jr. 1969. The occurrence of *Hexagenia limbata californica* (Upholt) in a California warmwater reservoir (Ephemeroptera: Ephemeridae). Wasmann J. Biol. 27:327-328.

Hayden, W., and H. F. Clifford. 1974. Seasonal movements of the mayfly Leptophlebia cupida (Say) in a brown-water stream of Alberta, Canada. Am. Midl. Nat. 91:90-102.

Hilsenhoff, W. L. 1970. Key to genera of Wisconsin Plecoptera (stonefly) nymphs, Ephemeroptera (mayfly) nymphs, Trichoptera (caddisfly) larvae. Wisconsin Dept. Nat. Resourc. Res. Rep. 67:1-68.

Howell, T. 1941. Notes on Ephemeroptera and aquatic Diptera of western North Carolina. J. Elisha Mitchell Sci. Soc. 57:306-317.

Ide, F. P. 1930. Contribution to the biology of Ontario mayflies with descriptions of new species. Can. Entomol. 62:204-213, 218-231.

Ide, F. P. 1935. Life history notes on Ephoron, Potamanthus, Leptophlebia and Blasturus with descriptions (Ephemeroptera). Can. Entomol. 67:113-125.

Jensen, S. L. 1966. The mayflies of Idaho (Ephemeroptera). M. S. Thesis, Univ. Utah, Salt Lake City.

Jensen, S. L., and G. F. Edmunds, Jr. 1966. A new species of Ephemerella from western North America (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 39:576-579.

Jones, J. 1977. The ecology, life history, and seasonal distribution of Neoephemera youngi Berner (Ephemeroptera: Neoephemeridae). M. S. Thesis, Florida State Univ., Tallahassee.

Judd, W. W. 1949. Insects collected in the Dundas Marsh, Hamilton, Ontario, 1946-47, with observations on their periods of emergence. Can. Entomol. 81:1-10.

Judd, W. W. 1953. A study of the population of insects emerging as adults from the Dundas Marsh, Hamilton, Ontario, during 1948. Am. Midl. Nat. 49:801-824.

Judd, W. W. 1962. A study of the population of insects emerging as adults from Medway Creek at Arva, Ontario. Am. Midl. Nat. 68:463-473.

Judd, W. W. 1966(1967). A study of the population of insects emerging as adults from Spettigue's Pond at London, Ontario. Proc. Entomol. Soc. Ontario 97:90-98.

Kennedy, C. H. 1926. The nymph of Ephemera guttulata Pictet with notes on the species. Can. Entomol. 58:61-63.

Kilgore, J. I., and R. K. Allen. 1973. Mayflies of the Southwest: New species, descriptions, and records (Ephemeroptera). Ann. Entomol. Soc. Am. 66:321-332.

Koslucher, D. G., and G. W. Minshall. 1973. Food habits of some benthic invertebrates in a northern cool-desert stream (Deep Creek, Curlew Valley, Idaho-Utah). Trans. Am. Micros. Soc. 92:441-452.

Koss, R. W. 1966. A new species of *Thraulodes* from New Mexico (Ephemeroptera: Leptophlebiidae). Mich. Entomol. 1:91-94.

Koss, R. W. 1970. A list of the mayflies (Ephemeroptera) in the Michigan State University Entomology Museum. Mich. Entomol. 3:98-101.

Koss, R. W. 1972. *Baetodes*: new species and new records for North America (Ephemeroptera: Baetidae). Entomol. News 83:93-102.

Koss, R. W., and G. F. Edmunds, Jr. 1970. A new species of *Lachlania* from New Mexico with notes on the genus (Ephemeroptera: Oligoneuriidae). Proc. Entomol. Soc. Wash. 72:55-65.

Kroger, R. L. 1973. Biological effects of fluctuating water levels in the Snake River, Grand Teton National Park, Wyoming. Am. Midl. Nat. 89:478-481.

Kroger, R. L. 1974. Invertebrate drift in the Snake River, Wyoming. Hydrobiologia 44:369-380.

Lehmkuhl, D. M. 1968. Observations on the life histories of four species of *Epeorus* in western Oregon (Ephemeroptera: Heptageniidae). Pan-Pac. Entomol. 44:129-137.

Lehmkuhl, D. M. 1970. The life cycle of *Rhithrogena* *morrisoni* (Banks) in western Oregon (Ephemeroptera: Heptageniidae). Pan-Pac. Entomol. 46: 124-127.

Lehmkuhl, D. M. 1972. *Baetisca* (Ephemeroptera: Baetiscidae) from the western interior of Canada with notes on the life cycle. Can. J. Zool. 50:1015-1017.

Lehmkuhl, D. M. 1973. A new species of *Baetis* (Ephemeroptera) from ponds in the Canadian Arctic, with biological notes. Can. Entomol. 105:343-346.

Lehmkuhl, D. M. 1974. Thermal regime alteration and vital environmental physiological signals in aquatic organisms. *In* Thermal ecology, J. W. Gibbons and R. R. Scharits, eds., A.E.C. Symp. Ser. (CONF 730505) p:216-222.

Lehmkuhl, D. M., and N. H. Anderson. 1970. Observations on the biology of *Cinygmula* *reticulata* McDunnough in Oregon (Ephemeroptera: Heptageniidae). Pan-Pac. Entomol. 46:268-274.

Lehmkuhl, D. M., and N. H. Anderson. 1971. Contributions to the biology and taxonomy of the *Paraleptophlebia* of Oregon (Ephemeroptera: Leptophlebiidae). Pan-Pac. Entomol. 47:85-93.

Leonard, J. W. 1948. An early-season mayfly. Michigan Conserv. 17:3, 12.

Leonard, J. W. 1949. The nymph of Ephemerella excrucians Walsh. Can. Entomol. 81:158-160.

Leonard, J. W. 1950. A new Baetis from Michigan (Ephemeroptera). Ann. Entomol. Soc. Am. 43:155-159.

Lewis, P. A. 1973. Description and ecology of three Stenonema mayfly nymphs. Proc. 1st Inter. Confer. Ephemeroptera, Tallahassee, 1970. E. J. Brill, Leiden. p:64-72.

Lewis, P. A. 1974. Taxonomy and ecology of Stenonema mayflies (Heptageniidae: Ephemeroptera). U. S. Eniviron. Proc. Agency Environ. Monitor, Ser. Publ. EPA-670/4-74-006. 80 p.

Lyman, F. E. 1942. A pre-impoundment bottom-fauna study of Watts Bar Reservoir area (Tennessee). Trans. Am Fish. Soc. 72:52-62.

Lyman, F. E. 1955. Seasonal distribution and life cycles of Ephemeroptera. Ann. Entomol. Soc. Am. 48:380-391.

McCafferty, W. P. 1971. New genus of mayflies from eastern North America (Ephemeroptera: Ephemeridae). J. New York Entomol. Soc. 79:45-51.

McCafferty, W. P. 1975. The burrowing mayflies (Ephemeroptera: Ephemeroidea) of the United States. Trans. Am. Entomol. Soc. 101:447-504.

McCoy, R. W., and D. C. Hales. 1974. A survey of eight streams in eastern South Dakota: Physical and chemical characteristics, vascular plants, insects and fishes. Proc. South Dakota Acad. Sci. 53:202-219.

McDunnough, J. 1921. Two new Canadian mayflies (Ephemeridae). Can. Entomol. 53:117-120.

McDunnough, J. 1923. New Canadian Ephemeridae with notes. Can. Entomol. 55:39-50.

McKinley, R. E., R. Prins, and L. E. Jech. 1972. Occurrence and distribution of arthropods in Travertine Creek, Platt National Park, Murray County, Oklahoma. Proc. Oklahoma Acad. Sci. 52:49-52.

Mason, W. T., Jr., J. B. Anderson, R. D. Kreis, and W. C. Johnson. 1970. Artificial substrate sampling, macroinvertebrates in a polluted reach of the Klamath River, Oregon. J. Water Poll. Contr. Fed., Aug. 1970, Part 2:R315-R328.

Maxwell, G. R., and A. Benson. 1963. Wing pad and tergite growth of mayfly nymphs in winter. Am. Midl. Nat. 69:224-230.

Minckley, W. L. 1963. The ecology of a spring stream: Doe Run, Meade County, Kentucky. Wildl. Monogr. 11:1-24.

Minshall, G. W. 1967. Role of allochthonous detritus in the trophic structure of woodland springbrook community. Ecology 48:139-149.

Minshall, G. W. 1968. Community dynamics of the benthic fauna in a woodland springbrook. Hydrobiologia 32:305-339.

Minshall, G. W., and D. A. Andrews. 1973. An ecological investigation of the Portneuf River, Idaho: A semiarid-land stream subjected to pollution. Freshwater Biol. 3:1-30.

Minshall, J. N. 1967. Life history and ecology of *Epeorus pleuralis* (Banks) (Ephemeroptera: Heptageniidae). Am. Midl. Nat. 78:369-388.

Morgan, A. H. 1911. May-flies of Fall Creek. Ann. Entomol. Soc. Am. 4:93-119, 7 pl.

Morrison, E. R. 1919. The May-fly ovipositor, with notes on *Leptophlebia* and *Hagenulus*. Can. Entomol. 51:139-146.

Neave, F. 1930. Migratory habits of the mayfly, *Blasturus cupidus* Say. Ecology 11:568-576.

Neave, F. 1932a. The mayflies of Lake Winnipeg. Can. Field-Nat. 46:54-55.

Neave, F. 1932b. A study of the May flies (*Hexagenia*) of Lake Winnipeg. Contr. Can. Biol. Fish. 7:179-201.

Nebeker, A. V. 1972. Effect of low oxygen concentration on survival and emergence of aquatic insects. Trans. Am. Fish. Soc. 101:675-679.

Nebeker, A. V., and A. E. Lemke. 1968. Preliminary studies on the tolerance of aquatic insects to heated waters. J. Kansas Entomol. Soc. 41:413-418.

Needham, J. G. 1908. New data concerning May flies and dragon flies of New York: Mayflies (Ephemeridae). New York State Mus. Bull. 1907:188-194.

Needham, J. G., J. R. Traver, and Y.-C. Hsu. 1935. The biology of mayflies with a systematic account of North American species. Comstock Publ. Co., Ithaca. 759 p.

Pearson, W. D., and R. H. Kramer. 1972. Drift and production of two aquatic insects in a mountain stream. Ecol. Monogr. 24:365-385.

Pescador, M. L., and W. L. Peters. 1974. The life history and ecology of *Baetisca rogersi* (Ephemeroptera: Baetiscidae). Bull. Florida State Mus., Biol. Sci., 17:151-209, 3 pl.

Peters, W. L. 1971. A revision of the Leptophlebiidae of the West Indies (Ephemeroptera). Smithsonian Contr. Zool. 62:1-48.

Prater, B. L. 1969. A quantitative analysis of the mayfly naiad *Leptophlebia cupida* in a temporary woods pool near Defiance, Ohio. Bios 40:122-127.

Radford, D. S., and R. Hartland-Rowe. 1971. The life cycles of some stream insects (Ephemeroptera, Plecoptera) in Alberta. Can. Entomol. 103:609-617.

Rutter, R. P., and T. E. Wissing. 1975. Distribution, abundance, and age structure of a population of the burrowing mayfly, *Hexagenia limbata*, in an Ohio pone. Ohio J. Sci. 75:7-13.

Savage, N. L., and F. W. Rabe. 1973. The effects of mine and domestic wastes on macroinvertebrate community structure in the Coeur d'Alene River. Northwest Sci. 47:159-168.

Schneider, R. F. 1962. Seasonal succession of certain invertebrates in a northwestern Florida lake. Quart. J. Florida Acad. Sci. 25:127-141.

Schneider, R. F., and L. Berner. 1963. A new southeastern species of *Baetisca* (Ephemeroptera: Baetiscidae). Florida Entomol. 46:183-187.

Scott, D. C., L. Berner, and A. Hirsh. 1959. The nymph of the mayfly genus *Tortopus* (Ephemeroptera: Polymitarcidae). Ann. Entomol. Soc. Am. 52: 205-213.

Sloan, W. C. 1956. The distribution of aquatic insects in two Florida streams. Ecology 37:81-98.

Spieth, H. T. 1938a. Two interesting mayfly nymphs with a description of a new species. Am. Mus. Novitates 970:1-7.

Spieth, H. T. 1938b. Taxonomic studies of Ephemerida, I: Description of new North American species. Am. Mus. Novitates 1002:1-11.

Spieth, H. T. 1941. Taxonomic studies on the Ephemeroptera. II. The genus *Hexagenia*. Am. Midl. Nat. 26:233-280.

Stern, M. S., and D. H. Stern. 1969. A limnological study of a Tennessee cold springbrook. Am. Midl. Nat. 82:62-82.

Trama, F. B. 1972. Transformation of energy by an aquatic herbivore (*Stenonema pulchellum*) Ephemeroptera. Pol. Arch. Hydrobiol. 19:113-121.

Traver, J. R. 1938. Mayflies of Puerto Rico. J. Agr. Univ. Puerto Rico 22:5-42, 3 pl.

Trost, L. M. W., and L. Berner. 1963. The biology of *Callibaetis floridanus* Banks (Ephemeroptera: Baetidae). Florida Entomol. 46:285-299.

Vincent, E. R. 1967. A comparison of riffle insect populations in the Gibbon River above and below the Geyser basins, Yellowstone National

Park. Limnol. Oceanogr. 12:18-26.

Walker, W. H., Jr., and W. D. Burbanck. 1973. The ecology and distribution of Hexagenia munda Eaton (Ephemeroptera) in Stone Mountain Lake, Georgia, U. S. A. Verh. Intern. Verein. Limnol. 18:1527-1533.

Waters, T. F. 1962. Diurnal periodicity in the drift of stream invertebrates. Ecology 43:316-320.

Waters, T. F. 1966. Production rate, population density, and drift of a stream invertebrate. Ecology 47:595-604.

Waters, T. F., and G. W. Crawford. 1973. Annual production of a stream mayfly population: A comparison of methods. Limnol. Oceanogr. 18:286-296.

Williamson, [H]. 1802. On the Ephoron leukon, usually called the white fly of Passaick River. Trans. Am. Philos. Soc. 5:71-73.

Wood, K. G. 1973. Decline of Hexagenia (Ephemeroptera) nymphs in western Lake Erie. Proc. 1st Intern. Confer. Ephemeroptera, Tallahassee, 1970. p:26-32.

SECTION 5

SELECTED REFERENCES FOR MAYFLY ECOLOGY PROFILES

1. Lewis, Philip A. 1973. Description and ecology of three *Stenonema* mayfly nymphs. Proc. 1st. Inter. Confer. Ephemeroptera, Tallahassee, 1970. E. J. Brill, Leiden. pp:64-72.

2. Lewis, Philip A. 1974. Taxonomy and ecology of *Stenonema* mayflies (Heptageniidae: Ephemeroptera). U. S. Environmental Protection Agency Environmental Monitoring Series Publ. EPA-670/4-74-006. 80p.

3. Allen, Richard K., and George F. Edmunds, Jr. 1958. A new species of *Ephemerella* from Georgia (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 31:222-224.

4. Allen, Richard K., and George F. Edmunds, Jr. 1959. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). I. The subgenus *Timpanoga*. Can. Entomol. 9:51-58.

5. Allen, Richard K. 1959. A new species of *Ephemerella* from Oregon (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 32:59-60.

6. Allen, Richard K., and George F. Edmunds, Jr. 1961. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). II. The subgenus *Caudatella*. Ann. Entomol. Soc. Am. 54:603-612.

7. Allen, Richard K., and George F. Edmunds, Jr. 1961. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). III. The subgenus *Attenuatella*. J. Kansas Entomol. Soc. 34:161-173.

8. Allen, Richard K., and George F. Edmunds, Jr. 1962. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). IV. The subgenus *Danella*. J. Kansas Entomol. Soc. 35:333-338.

9. Allen, Richard K., and George F. Edmunds, Jr. 1962. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). V. The subgenus *Drunella* in North America. Misc. Publ. Entomol. Soc. Am. 3:145-179.

10. Allen, Richard K., and George F. Edmunds, Jr. 1963. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). VI. The subgenus *Serratella* in North America. Ann. Entomol. Soc. Am. 56:583-600.

11. Allen, Richard E., and George F. Edmunds, Jr. 1963. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). VII. The subgenus

Eurylophella. Can. Entomol. 95:597-623.

12. Allen, Richard K., and George F. Edmunds, Jr. 1965. A revision of the genus *Ephemerella* (Ephemeroptera: Ephemerellidae). VIII. The subgenus *Ephemerella* in North America. Misc. Publ. Entomol. Soc. Am. 4:243-282.

13. Allen, Richard K. 1966. New species of *Heptagenia* from western North America (Ephemeroptera: Heptageniidae). Can. Entomol. 98:80-82.

14. Allen, Richard K. 1967. New species of New World Leptohyphinae (Ephemeroptera: Tricorythidae). Can. Entomol. 99:350-375.

15. Allen, Richard K., and Donald L. Collins. 1968. A new species of *Ephemerella* (*Serratella*) from California (Ephemeroptera: Ephemerellidae). Pan-Pac. Entomol. 44:122-124.

16. Allen, Richard K. 1968. New species and records of *Ephemerella* (*Ephemerella*) in western North America (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 41:557-567.

17. Allen, Richard K., and Selwyn S. Roback. 1969. New species and records of New World Leptohyphinae (Ephemeroptera: Tricorythidae). J. Kansas Entomol. Soc. 42:372-379.

18. Allen, Richard K., and Esther S. M. Chao. 1972. A new species of *Baetodes* from Arizona (Ephemeroptera: Baetidae). Bull. So. Calif. Acad. Sci. 71:52.

19. Cohen, Sandra D., and Richard K. Allen. 1972. New species of *Baetodes* from Mexico and Central America (Ephemeroptera: Baetidae). Pan-Pac. Entomol. 48:123-135.

20. Kilgore, Janet I., and Richard K. Allen. 1973. Mayflies of the Southwest: New species, descriptions, and records (Ephemeroptera). Ann. Entomol. Soc. Am. 66:321-332.

21. Allen, Richard K. 1973. Generic revisions of mayfly nymphs. 1. *Traverella* in North and Central America (Leptophlebiidae). Ann. Entomol. Soc. Am. 66:1287-1295.

22. Allen, Richard K. 1974. *Neochoroterpes*, a new subgenus of *Choroterpes* Eaton from North America (Ephemeroptera:Leptophlebiidae). Can. Entomol. 106:161-168.

23. Alexander, Charles P. 1925. An entomological survey of the Salt Fork of the Vermilion River in 1921, with a bibliography of aquatic insects. Bull. Illinois Nat. Hist. Surv. 15:435-535.

24. Argo, Virgil N. 1927. The North American species of the genus *Potamanthus*, with a description of a new species. J. New York Entomol. Soc. 35:319-329.

25. Armitage, Kenneth B. 1961. Distribution of riffle insects of the Firehole River, Wyoming. Hydrobiologia 17:152-174.

26. Banks, Nathan. 1900. New genera and species of Nearctic neuropteroid insects. Trans. Am. Entomol. Soc. 26:239-259.

27. Banks, Nathan. 1903. A new species of *Habrophlebia*. Entomol. News 14:235.

28. Banks, Nathan. 1904. Neuropteroid insects from New Mexico. Trans. Am. Entomol. Soc. 30:97-110, 1 pl.

29. Banks, Nathan. 1907. A new mayfly of the genus *Caenis*. Entomol. News 18:13-14.

30. Banks, Nathan. 1908. Neuropteroid insects- Notes and descriptions. Trans. Am. Entomol. Soc. 34:255-267, 1 pl.

31. Banks, Nathan. 1908. A list of neuropteroid insects from North Carolina. Proc. Entomol. Soc. Wash. 9:149-156.

32. Banks, Nathan. 1910. Notes on our eastern species of the May-fly genus *Heptagenia*. Can. Entomol. 42:197-202.

33. Banks, Nathan. 1914. New neuropteroid insects, native and exotic. Proc. Acad. Nat. Sci. Philadelphia. 66:608-632, 1 pl.

34. Banks, Nathan. 1918. New neuropteroid insects. Bull. Mus. Comp. Zool. 62:1-24, 2 pl.

35. Banks, Nathan. 1924. Descriptions of new neuropteroid insects. Bull. Mus. Comp. Zool. 65:419-455, 4 pl.

36. Beck, William M., Jr. 1970. Stream monitoring: Biological parameters. Florida Eng. Indus. Exp. Stat., Bull. Ser. 135:60-63.

37. Berner, Lewis. 1940. Baetine mayflies from Florida (Ephemeroptera). Florida Entomol. 23:33-45, 49-62.

38. Berner, Lewis. 1946. New species of Florida mayflies (Ephemeroptera). Florida Entomol. 28:60-82.

39. Berner, Lewis. 1948. A new species of mayfly from Tennessee. Entomol. News. 59:117-120.

40. Berner, Lewis. 1949. A report on two mayfly gynandromorphs. Florida Entomol. 32:105-109.

41. Berner, Lewis. 1940. *Baetisca rogersi*, a new mayfly from northern Florida. Can. Entomol. 72:156-160.

42. Berner, Lewis. 1953. New mayfly records from Florida and a description

of a new species. Florida Entomol. 36:145-149.

43. Berner, Lewis, and William C. Sloan. 1954. The occurrence of a mayfly nymph in brackish water. Ecology 35:98.

44. Berner, Lewis. 1955. The southeastern species of *Baetisca* (Ephemeroptera: Baetiscidae). Quart. J. Florida Acad. Sci. 18:1-19.

45. Berner, Lewis. 1955. A new species of *Paraleptophlebia* from the southeast (Ephemeroptera, Leptophlebiidae). Proc. Entomol. Soc. Wash. 57:245-247.

46. Berner, Lewis. 1956. The genus *Neoephemera* in North America (Ephemeroptera: Neoephemeridae). Ann. Entomol. Soc. Am. 49:33-42.

47. Berner, Lewis. 1957. A mayfly gynandromorph. Proc. Entomol. Soc. Wash. 59:167-169.

48. Berner, Lewis. 1958. A list of mayflies from the lower Apalachicola River Drainage. Quart. J. Florida Acad. Sci. 21:25-31.

49. Berner, Lewis. 1959. Newfoundland mayflies (Ephemeroptera). Opuscula Entomol. 24:212-214.

50. Scott, Donald C., Lewis Berner, and Allan Hirsch. 1959. The nymph of the mayfly genus *Tortopus* (Ephemeroptera: Polymitarcidae). Ann. Entomol. Soc. Am. 52:205-213.

51. Berner, Lewis, and Richard K. Allen. 1961. Southeastern species of the mayfly subgenus *Serratella* (*Ephemerella*: Ephemerellidae). Florida Entomol. 44:149-158.

52. Bishop, J. E., and H. B. N. Hynes. 1969. Downstream drift of the invertebrate fauna in a stream ecosystem. Arch. Hydrobiol. 66:56-90.

53. Burks, B. D. 1946. New heptagenine mayflies. Ann. Entomol. Soc. Amer. 39:607-615.

54. Burks, B. D. 1947. New species of *Ephemerella* from Illinois (Ephemeroptera). Can. Entomol. 79:232-236.

55. Berry, Edward W. 1903. New or hitherto unknown ephemerid nymphs of the eastern United States. Am. Nat. 37:25-31.

56. Brusven, M. A., and C. MacPhee. 1974. An evaluation of Squoxin on insect drift. Trans. Am. Fish. Soc. 103:362-365.

57. Brusven, Merlyn A. 1970. Drift periodicity and upstream dispersion of stream insects. J. Entomol. Soc. British Columbia 67:48-59.

58. Bell, Henry L., and Alan V. Nebeker. 1969. Preliminary studies on the tolerance of aquatic insects to low pH. J. Kansas Entomol. Soc. 42:230-236.

59. Bell, Henry L. 1971. Effect of low pH on the survival and emergence of aquatic insects. Water Res. 5:313-319.

60. Clemens, W. A. 1915. Rearing experiments and ecology of Georgian Bay Ephemeridae. Contr. Can. Biol. 4:113-128, 2 pl.

61. Clemens, Wilbert A. 1915. Mayflies of the *Siphlonurus* group. Can. Entomol. 47:245-260.

62. Clemens, Wilbert A. 1922. A parthenogenetic mayfly (*Ameletus ludens* Needham). Can. Entomol. 54:77-78.

63. Clemens, W. A., and A. K. Leonard. 1924. On two species of mayflies of the genus *Heptagenia*. Can. Entomol. 56:17-18.

64. Clemens, Wilbert Amie. 1917. An ecological study of the mayfly *Chirotonetes*. Univ. Toronto Stud., Biol. Ser. 17:1-43, 5 pl.

65. Clifford, Hugh F. 1966. Some limnological characteristics of six Ozark Streams. Missouri Dept. Conserv., Div. Fish., D-J Series No. 4:1-55.

66. Clifford, Hugh F. 1969. Limnological features of a northern brown-water stream, with special reference to the life histories of the aquatic insects. Am. Midl. Nat. 82:578-597.

67. Cooke, Herman G. 1940. Observations on mating flights of the May-fly *Stenonema vicarium* (Ephemerida). Entomol. News 51:12-14.

68. Cooke, Herman G. 1942. Mating flights of *Isonychia* May-flies (Ephemeroptera). Entomol. News 53:249-252.

69. Cooke, Herman G. 1947. Swarm behavior of *Hexagenia atrocaudata* in relation to temperature and relative humidity (Ephemeroptera). Entomol. News 58:221-227.

70. Cooke, Herman G. 1952. The occurrence of mass flight movements in *Hexagenia occulta* (Ephemeroptera). Entomol. News 63:61-66.

71. Cummins, Kenneth W., and George H. Lauff. 1969. The influence of substrate particle size on the microdistribution of stream macrobenthos. Hydrobiologia 34:145-181.

72. Carlander, Kenneth D., Clarence A. Carlson, Vijaya Gooch, and Thomas Wenke. 1967. Populations of *Hexagenia* mayfly naiads in Pool 19, Mississippi River, 1959-1963. Ecology 48:873-878.

73. Carlson, Clarence A. 1968. Summer bottom fauna of the Mississippi River, above Dam 19, Keokuk, Iowa. Ecology 49:162-169.

74. Cloud, Thomas J., Jr., and Kenneth W. Stewart. 1974. The drift of mayflies (Ephemeroptera) in the Brazos River, Texas. J. Kansas Entomol. Soc. 47:379-396.

75. Coffman, William P., Kenneth W. Cummins, and John C. Wuycheck. 1971. Energy flow in a woodland stream ecosystem: I. Tissue support trophic structure of the autumnal community. Arch. Hydrobiol. 68:232-276.

76. Coleman, M. J., and H. B. N. Hynes. 1970. The life histories of some Plecoptera and Ephemeroptera in a southern Ontario stream. Can. J. Zool. 48:1333-1339.

77. Craven, Richard E., and Bradford E. Brown. 1969. Ecology of Hexagenia naiads (Insecta- Ephemeridae) in an Oklahoma Reservoir. Am. Midl. Nat. 82:346-358.

78. Day, W. C. 1952. New species and notes on California mayflies (Ephemeroptera). Pan -Pac. Entomol. 28:17-39.

79. Day, W. C. 1953. A new mayfly genus from California (Ephemeroptera). Pan -Pac. Entomol. 29:19-24.

80. Day, W. C. 1954. New species and notes on California mayflies. II. (Ephemeroptera). Pan-Pac. Entomol. 30:15-29.

81. Day, W. C. 1954. New species of California mayflies in the genus Baetis (Ephemeroptera). Pan - Pac. Entomol. 30:29-34.

82. Day, W. C. 1955. New genera of mayflies from California (Ephemeroptera). Pan - Pac. Entomol. 31:121-137.

83. Dodds, G. S. 1923. Mayflies from Colorado: Descriptions of certain species and notes on others. Trans. Am. Entomol. Soc. 49:93-114, 2 pl.

84. Dodds, G. S., and Frederick L. Hisaw 1924. Ecological studies of aquatic insects. I. Adaptations of mayfly nymphs to swift streams. Ecology 5:137-148, 2 pl.

85. Dodds, G. S., and Frederick L. Hisaw. 1924. Ecological studies of aquatic insects. II. Size of respiratory organs in relation to environmental conditions. Ecology 5:262-271.

86. Daggy, Richard H. 1945. New species and previously undescribed naiads of some Minnesota mayflies (Ephemeroptera). Ann. Entomol. Soc. Am. 38:373-396.

87. Edmunds, George F., Jr. 1948. The nymph of Ephoron album (Ephemeroptera). Entomol. News 59:12-14.

88. Edmunds, George F., Jr. 1948. A new genus of mayflies from western North America (Leptophlebiinae). Proc. Biol. Soc. Wash. 61:141-148.

89. Edmunds, George F., Jr. 1951. Western records of the mayfly genus Stenonema. J. Kansas Entomol. Soc. 24:162.

90. Edmunds, George F. Jr. 1951. New species of Utah mayflies. I.

Oligoneuriidae (Ephemeroptera). Proc. Entomol. Soc. Wash. 53:327-331.

91. Edmunds, George F., Jr. 1954. New species of Utah mayflies. II. Baetidae, *Centroptilum* (Ephemeroptera). Proc. Entomol. Soc. Wash. 56:1-4.

92. Edmunds, George F., Jr., Lewis T. Nielsen, and Joseph R. Larsen. 1956. The life history of *Ephoron album* (Say) (Ephemeroptera: Polymitarcidae). Wasmann J. Biol. 14:145-153.

93. Edmunds, George F., Jr. 1957. *Metretopus borealis* (Eaton) in Canada (Ephemeroptera: Ametropodidae). Can. J. Zool. 35:161-162.

94. Edmunds, George F., Jr., and Richard K. Allen. 1957. A new species of *Baetis* from Oregon (Ephemeroptera: Baetidae). J. Kansas Entomol. Soc. 30:57-58.

95. Edmunds, George F., Jr. 1957. On the life history of *Parameletus columbiae* McDunnough (Ephemeroptera). Utah Acad. Proc. 34:25-26.

96. Edmunds, George F., Jr., Lewis Berner, and Jay R. Traver. 1958. North American mayflies of the family Oligoneuriidae. Ann. Entomol. Soc. Am. 51:375-382.

97. Edmunds, George F., Jr., and Jay R. Traver. 1959. The classification of the Ephemeroptera. I. Ephemeroidea: Behningiidae. Ann. Entomol. Soc. Am. 52:43-51.

98. Edmunds, George F., Jr. 1959. The mayflies of the Glen Canyon Dam area, Colorado River, Utah. Utah Acad. Proc. 36:79-80.

99. Edmunds, George F., Jr. 1960. The mayfly genus *Baetisca* in western North America (Ephemeroptera: Baetiscidae). Pan-Pac. Entomol. 36:102-104.

100. Edmunds, George F., and Guy G. Musser. 1960. The mayfly fauna of Green River in the Flaming Gorge Reservoir Basin, Wyoming and Utah. Univ. Utah Anthropol. Pap. 43:111-123.

101. Edmunds, George F., Jr. 1960. The food habits of the nymph of the mayfly *Siphlonurus occidentalis*. Utah Acad. Proc. 37:73-74.

102. Argyle, Delbert W., and George F. Edmunds. 1962. Mayflies (Ephemeroptera) of the Curecanti Reservoir basins, Gunnison River, Colorado. Univ. Utah Anthropol. Pap. 59:178-189.

103. Edmunds, George F., Jr., and Richard K. Allen. 1964. The Rocky Mountain species of *Epeorus* (*Iron*) Eaton (Ephemeroptera: Heptageniidae). J. Kansas Entomol. Soc. 37:275-288.

104. Edmunds, George F., Jr., and Richard W. Koss. 1972. A review of the Acanthametropodinae with a description of a new genus (Ephemeroptera: Siphlonuridae). Pan-Pac. Entomol. 48:136-144.

105. Edmunds, George F., Jr., and Steven L. Jensen. 1974. A new genus and subfamily of North American Heptageniidae (Ephemeroptera). Proc. Entomol. Soc. Wash. 76:495-497.

106. Eriksen, Clyde H. 1963. Respiratory regulation in *Ephemera simulans* Walker and *Hexagenia limbata* (Serville) (Ephemeroptera). J. Exp. Biol. 40:455-467.

107. Elgmork, Kåre, and Ole Saether. 1970. Distribution of invertebrates in a high mountain brook in the Colorado Rocky Mountains. Univ. Colorado Stud., Ser. Biol. 31:1-55.

108. Flannagan, John F. 1971. Toxicity evaluation of trisodium nitrilotriacetate to selected aquatic invertebrates and amphibians. Fish. Res. Bd. Can. Tech. Rep. 258:1-21.

109. Flannagan, John F., and G. H. Lawler. 1972. Emergence of caddisflies (Trichoptera) and mayflies (Ephemeroptera) from Heming Lake, Manitoba. Can. Entomol. 104:173-183.

110. Fremling, Calvin R. 1960. Biology of a large mayfly, *Hexagenia bilineata* (Say), of the upper Mississippi. Iowa St. Univ. Exp. Stat. Res. Bull. 482:841-852.

111. Fremling, Calvin R. 1964. Rhythmic *Hexagenia* mayfly emergences and the environmental factors which influence them. Verh. Intern. Verein. Limnol. 15:912-916.

112. Fremling, Calvin R., and Gerrit P. Kloek. 1968-1969. Distribution and emergence patterns of mayflies: *Ephemera simulans* (Ephemeroptera: Ephemeridae). J. Minnesota Acad. Sci. 35:102-103.

113. [Fremling, Calvin R.] 1970. Mayfly distribution as a water quality index. U. S. Environ. Prot. Agency Water Poll. Contr. Res. Ser. 16030 DQH, p:1-39.

114. Frost, S. W. 1967. Mayflies taken at the Archbold Biological Station, Highlands County, Florida. Florida Entomol. 50:281-284.

115. Gaufin, Arden R., and Stephen Hern. 1971. Laboratory studies on tolerance of aquatic insects to heated waters. J. Kansas Entomol. Soc. 44:240-245.

116. Gaufin, Arden R., Robert Chubb, and Robert Newell. 1974. Studies on the tolerance of aquatic insects to low oxygen concentrations. Gt. Basin Nat. 34:45-59.

117. Gilpin, B. R., and M. A. Brusven. 1970. Food habits and ecology of mayflies of the St. Maries River in Idaho. Melanderia 4:19-41.

118. Howell, Thelma. 1941. Notes on Ephemeroptera and aquatic Diptera of

western North Carolina. J. Elisha Mitchell Sci. Soc. 57:306-317.

119. Hall, Charles A. S. 1969. Mortality of the mayfly nymph, *Ephemerella rotunda* (Morgan), at various low dissolved oxygen concentrations. J. Elisha Mitchell Sci. Soc. 85:34-39.

120. Harper, Françoise. 1970. A new species of *Ameletus* (Ephemeroptera, Siphlonuridae) from southern Ontario. Can. J. Zool. 48:603-604.

121. Hashagen, Kenneth A., Jr. 1969. The occurrence of *Hexagenia limbata californica* (Upholt) in a California warmwater reservoir (Ephemeroptera: Ephemeridae). Wasmann J. Biol. 27:327-328.

122. Hayden, Worth, and Hugh F. Clifford. 1974. Seasonal movements of the mayfly *Leptophlebia cupida* (Say) in a brown-water stream of Alberta, Canada. Am. Midl. Nat. 91:90-102.

123. Ide, F. P. 1930. Contribution to the biology of Ontario mayflies with descriptions of new species. Can. Entomol. 62:204-213, 218-231.

124. Ide, F. P. 1935. Life history notes on *Ephoron*, *Potamanthus*, *Leptophlebia* and *Blasturus* with descriptions (Ephemeroptera). Can. Entomol. 67:113-125.

125. Jensen, Steven L., and George F. Edmunds, Jr. 1966. A new species of *Ephemerella* from western North America (Ephemeroptera: Ephemerellidae). J. Kansas Entomol. Soc. 39:576-579.

126. Judd, W. W. 1949. Insects collected in the Dundas Marsh, Hamilton, Ontario, 1946-47, with observations on their periods of emergence. Can. Entomol. 81:1-10.

127. Judd, W. W. 1953. A study of the population of insects emerging as adults from the Dundas Marsh, Hamilton, Ontario, during 1948. Am. Midl. Nat. 49:801-824.

128. Judd, W. W. 1962. A study of the population of insects emerging as adults from Medway Creek at Arva, Ontario. Am. Midl. Nat. 68:463-473.

129. Judd, W. W. 1966(1967). A study of the population of insects emerging as adults from Spettigue's Pond at London, Ontario. Proc. Entomol. Soc. Ontario 97:90-98.

130. Kroger, Richard L. 1973. Biological effects of fluctuating water levels in the Snake River, Grand Teton National Park, Wyoming. Am. Midl. Nat. 89:478-481.

131. Kroger, Richard L. 1974. Invertebrate drift in the Snake River, Wyoming. Hydrobiologia 44:369-380.

132. Koss, Richard W. 1966. A new species of *Thraulodes* from New Mexico (Ephemeroptera: Leptophlebiidae). Mich. Entomol. 1:91-94.

133. Koss, Richard W. 1970. A list of the mayflies (Ephemeroptera) in the Michigan State University Entomology Museum. Mich. Entomol. 3:98-101.

134. Koss, Richard W., and George F. Edmunds, Jr. 1970. A new species of *Lachlania* from New Mexico with notes on the genus (Ephemeroptera: Oligoneuriidae). Proc. Entomol. Soc. Wash. 72:55-65.

135. Koss, Richard W. 1972. *Baetodes*: new species and new records for North America (Ephemeroptera: Baetidae). Entomol. News 83:93-102.

136. Kennedy, Clarence Hamilton. 1926. The nymph of *Ephemera guttulata* Pictet with notes on the species. Can. Entomol. 58:61-63.

137. Koslucher, Dale G., and G. Wayne Minshall. 1973. Food habits of some benthic invertebrates in a northern cool-desert stream (Deep Creek, Curlew Valley, Idaho-Utah). Trans. Am. Micros. Soc. 92:441-452.

138. Lehmkuhl, D. M. 1974. Thermal regime alteration and vital environmental physiological signals in aquatic organisms. *IN* Thermal Ecology, J. W. Gibbons and R. R. Scharits (eds.), A.E.C. Symp. Ser. (CONF 730505) p:216-222.

139. Lehmkuhl, D. M. 1968. Observations on the life histories of four species of *Epeorus* in western Oregon (Ephemeroptera: Heptageniidae). Pan-Pac. Entomol. 44:129-137.

140. Lehmkuhl, D. M. 1973. A new species of *Baetis* (Ephemeroptera) from ponds in the Canadian arctic, with biological notes. Can. Entomol. 105: 343-346.

141. Lehmkuhl, D. M. 1972. *Baetisca* (Ephemeroptera: Baetiscidae) from the western interior of Canada with notes on the life cycle. Can. J. Zool. 50:1015-1017.

142. Lehmkuhl, D. M., and N. H. Anderson. 1971. Contributions to the biology and taxonomy of the *Paraleptophlebia* of Oregon (Ephemeroptera: Leptophlebiidae). Pan-Pac. Entomol. 47:85-93.

143. Lehmkuhl, D. M., and N. H. Anderson. 1970. Observations on the biology of *Cinygmula reticulata* McDunnough in Oregon (Ephemeroptera: Heptageniidae). Pan-Pac. Entomol. 46:268-274.

144. Lehmkuhl, D. M. 1970. The life cycle of *Rhithrogena morrisoni* (Banks) in western Oregon (Ephemeroptera: Heptageniidae). Pan-Pac. Entomol. 46:124-127.

145. Leonard, Justin W. 1948. An early-season mayfly. Michigan Conserv. 17:3, 12.

146. Leonard, Justin W. 1949. The nymph of *Ephemerella excrucians* Walsh. Can. Entomol. 81:158-160

147. Leonard, Justin W. 1950. A new Baetis from Michigan (Ephemeroptera). Ann. Entomol. Soc. Am. 43:155-159.

148. Lyman, F. Earle. 1942. A pre-impoundment bottom-fauna study of Watts Bar Reservoir area (Tennessee). Trans. Am. Fish. Soc. 72:52-62.

149. Lyman, F. Earle. 1955. Seasonal distribution and life cycles of Ephemeroptera. Ann. Entomol. Soc. Am. 48:380-391.

150. McCafferty, W. P. 1971. New genus of mayflies from eastern North America (Ephemeroptera: Ephemeridae). J. New York Entomol. Soc. 79:45-51.

151. McCafferty, W. P. 1975. The burrowing mayflies (Ephemeroptera: Ephemeroidea) of the United States. Trans. Am. Entomol. Soc. 101:447-504.

152. McDunnough, J. 1921. Two new Canadian Mayflies (Ephemeridae). Can. Entomol. 53:117-120.

153. McDunnough, J. 1923. New Canadian Ephemeridae with notes. Can. Entomol. 55:39-50.

154. McCoy, Richard W., and Donald C. Hales. 1974. A survey of eight streams in eastern South Dakota: Physical and chemical characteristics, vascular plants, insects and fishes. Proc. South Dakota Acad. Sci. 53:202-219.

155. McKinley, R. E., R. Prins, and L. E. Jech. 1972. Occurrence and distribution of arthropods in Travertine Creek, Platt National Park, Murray County, Oklahoma. Proc. Oklahoma Acad. Sci. 52:49-52.

156. Minshall, G. Wayne. 1967. Role of allochthonous detritus in the trophic structure of woodland springbrook community. Ecology 48:139-149.

157. Minshall, G. Wayne. 1968. Community dynamics of the benthic fauna in a woodland springbrook. Hydrobiologia 32:305-339.

158. Minshall, G. Wayne, and Douglas A. Andrews. 1973. An ecological investigation of the Portneuf River, Idaho: A semiarid-land stream subjected to pollution. Freshwater Biol. 3:1-30.

159. Morgan, Anna H. 1911. May-flies of Fall Creek. Ann. Entomol. Soc. Am. 4:93-119, 7 pl.

160. Mason, William T., Jr., J. B. Anderson, R. Douglas Kreis, and William C. Johnson. 1970. Artificial substrate sampling, macroinvertebrates in a polluted reach of the Klamath River, Oregon. J. Water Poll. Contr. Fed., Aug. 1970, Part 2:R315-R328.

161. Maxwell, George R., and A. Benson. 1963. Wing pad and tergite growth of mayfly nymphs in winter. Am. Midl. Nat. 69:224-230.

162. Minckley, W. L. 1963. The ecology of a spring stream: Doe Run,

Meade County, Kentucky. Wildl. Monogr. 11:1-24.

163. Minshall, Judy N. 1967. Life history and ecology of Epeorus pleuralis (Banks) (Ephemeroptera: Heptageniidae). Am. Midl. Nat. 78:369-388.

164. Morrison, Emily Reed. 1919. The May-fly ovipositor, with notes on Leptophlebia and Hagenulus. Can. Entomol. 51:139-146.

165. Neave, Ferris. 1932. The mayflies of Lake Winnipeg. Can. Field-Nat. 46:54-55.

166. Neave, Ferris. 1932. A study of the May flies (Hexagenia) of Lake Winnipeg. Contr. Can. Biol. Fish. 7:179-201.

167. Neave, Ferris. 1930. Migratory habits of the mayfly, Blasturus cupidus Say. Ecology 11:568-576.

168. Needham, James G. 1908. New data concerning May flies and dragon flies of New York: Mayflies (Ephemeridae). New York State Mus. Bull. 1907: 188-194.

169. Nebeker, Alan V., and Armond E. Lemke. 1968. Preliminary studies on the tolerance of aquatic insects to heated waters. J. Kansas. Entomol. Soc. 41:413-418.

170. Nebeker, Alan V. 1972. Effect of low oxygen concentration on survival and emergence of aquatic insects. Trans. Am. Fish. Soc. 101:675-679.

171. Pearson, William D., and Robert H. Kramer. 1972. Drift and production of two aquatic insects in a mountain stream. Ecol. Monogr. 24:365-385.

172. Pescador, Manuel L., and William L. Peters. 1974. The life history and ecology of Baetisca rogersi (Ephemeroptera: Baetiscidae). Bull. Florida State Mus., Biol. Sci., 17:151-209, 3 pl.

173. Jensen, Steven Leroy. 1966. The mayflies of Idaho (Ephemeroptera). M. S. Thesis, Univ. Utah, Salt Lake City.

174. Prater, Bayliss L. 1969. A quantitative analysis of the mayfly naiad Leptophlebia cupida in a temporary woods pool near Defiance, Ohio. Bios 40:122-127.

175. Hubbard, Michael D. 1976. Unpublished observations.

176. Radford, D. S., and R. Hartland-Rowe. 1971. The life cycles of some stream insects (Ephemeroptera, Plecoptera) in Alberta. Can. Entomol. 103: 609-617.

177. Rutter, Robert P., and Thomas E. Wissing. 1975. Distribution, abundance, and age structure of a population of the burrowing mayfly, Hexagenia limbata, in an Ohio pond. Ohio J. Sci. 75:7-13.

178. Schneider, Robert F. 1962. Seasonal succession of certain invertebrates in a northwestern Florida lake. Quart. J. Florida Acad. Sci. 25: 127-141.

179. Schneider, Robert F., and Lewis Berner. 1963. A new southeastern species of *Baetisca* (Ephemeroptera: Baetiscidae). Florida Entomol. 46: 183-187.

180. Spieth, Herman T. 1938. Two interesting mayfly nymphs with a description of a new species. Am. Mus. Novitates 970:1-7.

181. Spieth, Herman T. 1938. Taxonomic studies of Ephemerida, I: Description of new North American species. Am. Mus. Novitates 1002:1-11.

182. Spieth, Herman T. 1941. Taxonomic studies on the Ephemeroptera. II. The genus *Hexagenia*. Am. Midl. Nat. 26:233-280.

183. Savage, Nancy L. and Fred W. Rabe. 1973. The effects of mine and domestic wastes on macroinvertebrate community structure in the Coeur d'Alene River. Northwest Sci. 47:159-168.

184. Sloan, William C. 1956. The distribution of aquatic insects in two Florida streams. Ecology 37:81-98.

185. Stern, Michele S., and Daniel H. Stern. 1969. A limnological study of a Tennessee cold springbrook. Am. Midl. Nat. 82:62-82.

186. Trost, Lucille M. W., and Lewis Berner. 1963. The biology of *Callibaetis floridanus* Banks (Ephemeroptera: Baetidae). Florida Entomol. 46:285-299.

187. Trama, F. B. 1972. Transformation of energy by an aquatic herbivore (*Stenonema pulchellum*) Ephemeroptera. Pol. Arch. Hydrobiol. 19:113-121.

188. Vincent, Ernest Richard. 1967. A comparison of riffle insect populations in the Gibbon River above and below the Geyser basins, Yellowstone National Park. Limnol. Oceanogr. 12:18-26.

189. Traver, Jay R. 1938. Mayflies of Puerto Rico. J. Agr. Univ. Puerto Rico 22:5-42, 3 pl.

190. Peters, William L. 1971. A revision of the Leptophlebiidae of the West Indies (Ephemeroptera). Smithsonian Contr. Zool. 62:1-48.

191. Peters, William L. 1976. Unpublished observations.

192. Flowers, R. Wills. 1976. Unpublished observations.

193. Waters, Thomas F. 1962. Diurnal periodicity in the drift of stream invertebrates. Ecology 43:316-320.

194. Waters, Thomas F. 1966. Production rate, population density, and drift of a stream invertebrate. Ecology 47:595-604.

195. Waters, Thomas F., and Gary W. Crawford. 1973. Annual production of a stream mayfly population: A comparison of methods. Limnol. Oceanogr. 18:286-296.

196. Wood, Kenneth G. 1973. Decline of Hexagenia (Ephemeroptera) nymphs in western Lake Erie. Proc.1st Intern. Conf. Ephemeroptera, Tallahassee p. 26-32.

197. Walker, William H., Jr., and W. D. Burbanck. 1973. The ecology and distribution of Hexagenia munda Eaton (Ephemeroptera) in Stone Mountain Lake, Georgia, U. S. A. Verh. Intern. Verein. Limnol. 18:1527-1533.

198. Allen, Richard K., and George F. Edmunds, Jr. 1976. A revision of the genus Ametropus in North America (Ephemeroptera: Ametropididae). J. Kansas Entomol. Soc. 49:625-635.

199. Jones, Jerome. 1977. The ecology, life history, and seasonal distribution of Neoephemera youngi Berner (Ephemeroptera: Neoephemeridae). M. S. Thesis, Florida State Univ., Tallahassee.

200. Williamson, [H]. 1802. On the Ephoron leukon, usually called the white fly of Passaick River. Trans. Am. Philos. Soc. 5:71-73.

SECTION 6

Families and Subfamilies of Species Included

Ephemeroptera

- Siphlonuridae
    - Siphlonurinae
    - Acanthametropodinae
    - Isonychiinae
- Metretopodidae
- Ametropodidae
- Baetidae
- Oligoneuriidae
    - Oligoneuriinae
- Heptageniidae
    - Heptageniinae
    - Arthropleinae
    - Anepeorinae
    - Spinadinae
- Leptophlebiidae
- Ephemerellidae
- Tricorythidae
    - Leptohyphinae
- Neoephemeridae
- Caenidae
- Baetiscidae
- Behningiidae
- Potamanthidae
- Ephemeridae
    - Ephemerinae
    - Pentageniinae
- Polymitarcyidae
    - Polymitarcyinae
    - Campsurinae

SECTION 7

ECOLOGICAL PROFILES FOR EPHEMEROPTERA

Ameletus cooki McDunnough

Parameters		References 173	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Ameletus *dissitus* Eaton

	Parameters	References	Notes
		78	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic .		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Ameletus facilis Day

Parameters		References	Notes
		78	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Ameletus imbellus Day

Parameters		References	Notes
		78	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter	X	
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Ameletus ludens Needham

Parameters		62	159	191	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal			X	
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic			X	
General Habitat	Lake				
	Pond				
	River				
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic			X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring	X	X	X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II	X	X		
	Region III				
	Region IV				
	Region V				
	Region VI				
	Region VII			X	
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Ameletus oregonensis McDunnough

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Ameletus similior McDunnough

Parameters		References: 173	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII	X	

Ameletus sparsatus McDunnough

Parameters		References																									Notes
		173																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal	X																									
	Oligothermal	X																									
	Stenothermal																										
	Metathermal	X																									
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous	X																									
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X	X																									
	Region XI																										
	Region XII	X																									

Ameletus validus McDunnough

Parameters		153	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal		X	
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer		X	
	Autumn	X	X	
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX		X	
	Region X		X	
	Region XI			
	Region XII	X	X	

Ameletus velox Dodds

Parameters		83	84	85	173	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					(85) 7.28%.
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal					
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous			X		
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous	X	X			
	Indifferent			X	X	
	Rheophilous	X				
	Rheobiontic					
General Habitat	Lake	X	X	X	X	
	Pond	X	X	X	X	
	River				X	
	Stream	X			X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X			
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring				X	
	Summer	X			X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X	X	X		
	Region IX					
	Region X				X	
	Region XI					
	Region XII					

Ameletus walleyi Harper

Parameters		References																									Notes
		120																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic	X																									
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI	X																									
	Region XII																										

Ametropus albrighti Traver

Parameters		References 100	173	191	198	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic			X		
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal			X		
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous			X		
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic	X	X	X	X	
General Habitat	Lake					
	Pond					
	River	X	X	X	X	
	Stream					
	Other					
Specific Habitat	Epibenthic	X				
	Embenthic	X	X		X	
	Epipelic					
	Episabulic	X	X	X	X	
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring		X		X	
	Summer			X		
	Autumn					
Feeding	Predator					
	Herbivore				X	
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI		X		X	
	Region VII					
	Region VIII	X	X	X	X	
	Region IX					
	Region X					
	Region XI					
	Region XII					

Ametropus ammophilus Allen & Edmunds

Parameters		References	Notes
		198	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous	X	
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic	X	
	Epipelic		
	Episabulic	X	
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Ametropus neavei McDunnough

Parameters		References																									Notes
		198	173																								
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer		X																								
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII		X																								
	Region IX																										
	Region X		X																								
	Region XI																										
	Region XII	X	X																								

Analetris eximia Edmunds

Parameters		104	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		(104) 19-23°C
	Mesothermal	X	
	Oligothermal		
	Stenothermal	X	
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous	X	
	Mesolichtophilous		
	Polylichtophilous	X	
	Oligolichtophilous	X	
Current	Limnobiontic		
	Limnophilous		
	Indifferent	X	
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic	X	
	Embenthic	X	
	Epipelic		
	Episabulic	X	
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator	X	
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Anepeorus rusticus McDunnough

	Parameters	References																									Notes
		100																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII	X																									
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Apobaetis indeprensus Day

Parameters		References	Notes
		82	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic	X	
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous	X	
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Arthroplea bipunctata McDunnough

Parameters		References			Notes
		123	133	192	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous	X			
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic			X	
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous	X		X	
	Mesoxyphilous			X	
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal	X			
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic			X	
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond	X		X	
	River			X	
	Stream	X			
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic			X	
Emer-gence	Winter				
	Spring	X		X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore			X	
	Scavenger				
Geographical Distribution	Region I		X		
	Region II				
	Region III				
	Region IV				
	Region V			X	
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Baetis alius Day

Parameters		References	Notes
		81	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Baetis amplus (Traver)

Parameters		References			Notes
		156	157	163	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous		X		
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal			X	
	Oligothermal		X	X	
	Stenothermal				
	Metathermal		X	X	
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X	X		
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI	X	X	X	
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Baetis australis Traver

Parameters		References 37	48	191	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous			X	
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic			X	
General Habitat	Lake				
	Pond				
	River				
	Stream		X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic			X	
	Episabulic				
	Epilithic				
	Epixylous			X	
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer			X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Baetis bicaudatus Dodds

Parameters		57	83	84	85	100	107	117	131	171	173	191	Notes
pH	Acidobiontic												
	Acidophilous												
	Neutral												
	Alkaliphilous							X		X			
	Alkalibiontic												
	Indifferent												
Nutri-ent	Eutrophic												
	Mesotrophic												
	Oligotrophic												
	Dystrophic												
Organ-ics	Saprophilic												
	Facultative												
	Saproxenous												
	Saprophobic											X	
O_2	Euoxyphilous							X		X			(85) 7.5 %.
	Mesoxyphilous												
	Oligoxyphilous												
Tempera-ture	Euthermal												
	Mesothermal					X					X		
	Oligothermal						X			X	X	X	
	Stenothermal									X			
	Metathermal						X				X		
	Eurythermal												
Turbid-ity	Eulichtophilous									X		X	
	Mesolichtophilous	X											
	Polylichtophilous												
	Oligolichtophilous												
Current	Limnobiontic												
	Limnophilous												
	Indifferent												
	Rheophilous	X						X		X			
	Rheobiontic		X	X	X		X		X			X	
General Habitat	Lake												
	Pond												
	River							X	X				
	Stream	X	X	X	X	X	X	X		X	X	X	
	Other												
Specific Habitat	Epibenthic		X	X			X						
	Embenthic												
	Epipelic												
	Episabulic												
	Epilithic	X	X	X			X	X				X	
	Epixylous												
	Epiphytic												
Emer-gence	Winter												
	Spring									X			
	Summer		X						X	X	X	X	
	Autumn									X	X		
Feeding	Predator												
	Herbivore							X		X			
	Omnivore												
	Scavenger							X					
Geographical Distribution	Region I												
	Region II												
	Region III												
	Region IV												
	Region V												
	Region VI												
	Region VII												
	Region VIII		X	X	X	X	X		X	X		X	
	Region IX												
	Region X	X						X			X		
	Region XI												
	Region XII												

Baetis brunneicolor McDunnough

Parameters		References		Notes
		154	194	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous	X		
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal		X	
	Stenothermal			
	Metathermal		X	
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous	X		
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X		
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer			
	Autumn		X	
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V		X	
	Region VI			
	Region VII			
	Region VIII	X		
	Region IX			
	Region X			
	Region XI			
	Region XII			

Baetis bundyae Lehmkuhl

Parameters		References 140	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond	X	
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Baetis caurinus Edmunds and Allen

Parameters		References																									Notes
		94																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X	X																									
	Region XI																										
	Region XII																										

Baetis diablus Day

Parameters		References																									Notes
		81																									
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring	X																								
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical* Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX	X																								
	Region X																									
	Region XI																									
	Region XII																									

Baetis ephippiatus Traver

Parameters		References 37	48	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter	X		
	Spring	X		
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Baetis flavistriga McDunnough

Parameters		References		Notes
		152	153	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring	X	X	
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X	X	
	Regi[illegible]II			

Baetis frondalis McDunnough

Parameters		References		Notes
		133	154	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous		X	
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous		X	
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII		X	
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Baetis garcianus Traver

Parameters		References 189	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(189) Puerto Rico
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetis hageni Eaton

Parameters		156	157	163	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic		X		
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal		X	X	
	Stenothermal				
	Metathermal		X	X	
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X	X		
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore	X			
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Baetis hiemalis Leonard

Parameters		167	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic	X	
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic	X	
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetis insignificans McDunnough

Parameters		173	100	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII		X	
	Region IX			
	Region X	X		
	Region XI			
	Region XII	X		

Baetis intercalaris McDunnough

	Parameters	References																									Notes
		37	48	129	128	133	152	153	154	172	184	35															
pH	Acidobiontic																										
	Acidophilous									X																	
	Neutral								X		X																
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous									X	X																
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal									X	X																
	Oligothermal			X	X					X																	
	Stenothermal										X																
	Metathermal									X																	
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous								X																		
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic			X																							
	Limnophilous																										
	Indifferent				X						X																
	Rheophilous								X																		
	Rheobiontic																										
General Habitat	Lake																										
	Pond			X																							
	River	X									X																
	Stream	X	X		X				X	X																	
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring			X	X		X	X				X															
	Summer			X				X																			
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I					X																					
	Region II																										
	Region III																										
	Region IV	X	X							X	X																
	Region V											X															
	Region VI																										
	Region VII																										
	Region VIII								X																		
	Region IX																										
	Region X																										
	Region XI			X	X		X	X																			
	Region XII																										

Baetis intermedius Dodds

Parameters		References				Notes
		83	84	100	173	
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal			X		
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic		X			
General Habitat	Lake					
	Pond					
	River					
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic	X	X			
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic	X	X			
	Epixylous					
	Epiphytic					
Emergence	Winter					
	Spring				X	
	Summer	X			X	
	Autumn				X	
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X	X	X		
	Region IX					
	Region X				X	
	Region XI					
	Region XII					

Baetis *leechi* Day

Parameters		References																									Notes
		81																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn	X																									
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX	X																									
	Region X																										
	Region XI																										
	Region XII																										

Baetis moffatti Dodds

Parameters		References	Notes
		83	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetis nanus McDunnough

Parameters		References																								Notes
		153																								
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River	X																								
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer	X																								
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI	X																								
	Region XII																									

Baetis parvus Dodds

Parameters		83	117	123	133	173	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral			X			
	Alkaliphilous		X				
	Alkalibiontic						
	Indifferent						
Nutrient	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous			X			
	Mesoxyphilous						
	Oligoxyphilous						
Temperature	Euthermal						
	Mesothermal						
	Oligothermal			X		X	
	Stenothermal						
	Metathermal					X	
	Eurythermal						
Turbidity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous		X				
	Rheobiontic			X			
General Habitat	Lake						
	Pond						
	River		X				
	Stream	X		X		X	
	Other						
Specific Habitat	Epibenthic			X			
	Embenthic						
	Epipelic		X				
	Episabulic						
	Epilithic		X	X			
	Epixylous						
	Epiphytic			X			
Emergence	Winter						
	Spring						
	Summer	X		X		X	
	Autumn					X	
Feeding	Predator						
	Herbivore		X				
	Omnivore						
	Scavenger		X				
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV						
	Region V						
	Region VI						
	Region VII						
	Region VIII	X					
	Region IX						
	Region X		X		X	X	
	Region XI			X			
	Region XII						

Baetis phoebus McDunnough

Parameters		149	153	154	156	157	163	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous			X		X		
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous					X		
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal					X	X	
	Oligothermal					X	X	
	Stenothermal							
	Metathermal					X	X	
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous			X				
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous	X		X	X	X		
	Rheobiontic							
General Habitat	Lake							
	Pond							
	River							
	Stream		X	X	X	X	X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic	X						
	Epipelic							
	Episabulic							
	Epilithic	X						
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring	X	X					
	Summer	X						
	Autumn	X						
Feeding	Predator							
	Herbivore				X			
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV				X	X	X	
	Region V	X						
	Region VI							
	Region VII							
	Region VIII			X				
	Region IX							
	Region X							
	Region XI		X					
	Region XII							

Baetis phyllis Burks

Parameters		References	Notes
		154	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous	X	
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous	X	
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetis posticatus (Say)

Parameters		References	Notes
		168	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II	X	
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetis propinquus (Walsh)

Parameters		37	48	60	152	153	173	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal							
	Oligothermal							
	Stenothermal							
	Metathermal							
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic							
General Habitat	Lake			X				
	Pond							
	River	X						
	Stream	X	X					
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic							
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring				X	X		
	Summer	X		X		X	X	
	Autumn	X						
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV	X	X					
	Region V							
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X						X	
	Region XI			X	X	X		
	Region XII					X		

Baetis pygmaeus (Hagen)

Parameters		123	126	154	159	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral	X				
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous	X				
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal	X	X			
	Oligothermal		X			
	Stenothermal					
	Metathermal					
	Eurythermal		X			
Turbid-ity	Eulichtophilous					
	Mesolichtophilous			X		
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous		X			
	Indifferent	X				
	Rheophilous			X		
	Rheobiontic					
General Habitat	Lake					(126) Marsh
	Pond					
	River					
	Stream	X		X	X	
	Other		X			
Specific Habitat	Epibenthic	X				
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic	X				
Emer-gence	Winter					
	Spring				X	
	Summer	X			X	
	Autumn		X			
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II				X	
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII			X		
	Region IX					
	Region X					
	Region XI	X	X			
	Region XII					

Baetis _quebecensis_ Hubbard

Parameters		References	Notes
		156	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous	X	
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous	X	
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetis quilleni Dodds

	Parameters	References																									Notes
		83	173																								
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII	X																									
	Region IX																										
	Region X		X																								
	Region XI																										
	Region XII																										

Baetis spiethi Berner

Parameters		References				Notes
		37	48	172	191	
pH	Acidobiontic					
	Acidophilous			X		
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic				X	
O_2	Euoxyphilous			X		
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal			X	X	
	Oligothermal			X		
	Stenothermal					
	Metathermal			X		
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous				X	
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X				
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic				X	
	Epixylous					
	Epiphytic					
Emer-gence	Winter	X		X		
	Spring	X		X	X	
	Summer	X		X	X	
	Autumn	X		X		
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X	X	
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Baetis spinosus McDunnough

Parameters		References				Notes
		37	48	172	184	
pH	Acidobiontic					
	Acidophilous			X		
	Neutral					
	Alkaliphilous				X	
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous			X	X	
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal			X	X	
	Oligothermal			X		
	Stenothermal				X	
	Metathermal			X		
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous				X	
	Rheobiontic	X				
General Habitat	Lake					
	Pond					
	River	X			X	
	Stream	X	X	X		
	Other					
Specific Habitat	Epibenthic					(37) Debris
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter	X		X		
	Spring	X		X		
	Summer	X		X		
	Autumn	X		X		
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X	X	
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Baetis sulfurosus Day

Parameters		References 81	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri- ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ- ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera- ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid- ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer- gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Baetis tricaudatus Dodds

Parameters		24	57	66	83	84	85	100	117	131	137	158	173	183	Notes
pH	Acidobiontic														
	Acidophilous														
	Neutral														
	Alkaliphilous	X		X							X	X			
	Alkalibiontic														
	Indifferent													X	
Nutri-ent	Eutrophic														
	Mesotrophic										X	X			
	Oligotrophic														
	Dystrophic			X											
Organ-ics	Saprophilic														
	Facultative								X					X	
	Saproxenous														
	Saprophobic			X											
O_2	Euoxyphilous			X									X	X	(85)~ 7 %.
	Mesoxyphilous														
	Oligoxyphilous														
Tempera-ture	Euthermal														
	Mesothermal	X		X				X			X			X	
	Oligothermal										X		X		
	Stenothermal														
	Metathermal												X		
	Eurythermal	X		X							X				
Turbid-ity	Eulichtophilous														
	Mesolichtophilous		X	X							X				
	Polylichtophilous											X		X	
	Oligolichtophilous														
Current	Limnobiontic														
	Limnophilous														
	Indifferent										X				
	Rheophilous		X	X	X	X			X					X	
	Rheobiontic						X			X			X		
General Habitat	Lake														
	Pond														
	River	X							X	X				X	
	Stream		X	X	X	X	X	X	X		X	X	X		
	Other														
Specific Habitat	Epibenthic						X								
	Embenthic														
	Epipelic										X				
	Episabulic														
	Epilithic	X	X			X	X		X		X		X	X	
	Epixylous														
	Epiphytic					X	X								
Emer-gence	Winter			X									X		
	Spring												X		
	Summer			X	X					X			X		
	Autumn			X									X		
Feeding	Predator														
	Herbivore								X		X				
	Omnivore														
	Scavenger								X		X				
Geographical* Distribution	Region I														
	Region II														
	Region III														
	Region IV														
	Region V														
	Region VI														
	Region VII														
	Region VIII	X			X	X	X			X	X				
	Region IX														
	Region X		X						X		X	X	X	X	
	Region XI														
	Region XII			X											

Baetis vagans McDunnough

Parameters		76	123	154	162	185	193	194	Notes
pH	Acidobiontic								
	Acidophilous								
	Neutral		X		X			X	
	Alkaliphilous	X		X	X	X			
	Alkalibiontic								
	Indifferent								
Nutri- ent	Eutrophic								
	Mesotrophic								
	Oligotrophic				X				
	Dystrophic								
Organ- ics	Saprophilic								
	Facultative								
	Saproxenous								
	Saprophobic				X				
O_2	Euoxyphilous	X	X		X				
	Mesoxyphilous		X						
	Oligoxyphilous								
Tempera- ture	Euthermal								
	Mesothermal	X	X		X		X	X	
	Oligothermal	X	X		X	X	X	X	
	Stenothermal					X			
	Metathermal		X		X		X	X	
	Eurythermal								
Turbid- ity	Eulichtophilous								
	Mesolichtophilous			X	X				
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent		X						
	Rheophilous	X		X	X	X	X	X	
	Rheobiontic								
General Habitat	Lake		X						
	Pond								
	River								
	Stream	X	X	X	X	X	X	X	
	Other								
Specific Habitat	Epibenthic				X				
	Embenthic								
	Epipelic								
	Episabulic								
	Epilithic				X	X			
	Epixylous								
	Epiphytic				X	X			
Emer- gence	Winter				X	X			
	Spring	X	X		X	X		X	
	Summer	X	X					X	
	Autumn								
Feeding	Predator								
	Herbivore					X			
	Omnivore								
	Scavenger								
Geographical Distribution	Region I								
	Region II								
	Region III								
	Region IV				X	X			
	Region V						X	X	
	Region VI								
	Region VII								
	Region VIII			X					
	Region IX								
	Region X								
	Region XI	X	X						
	Region XII								

Baetisca bajkovi Neave

Parameters		65	86	141	191	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous	X				
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic	X				
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous	X				
	Saprophobic				X	
O_2	Euoxyphilous	X				
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal	X		X	X	
	Oligothermal			X	X	
	Stenothermal					
	Metathermal	X				
	Eurythermal			X		
Turbidity	Eulichtophilous				X	
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River		X	X	X	
	Stream	X			X	
	Other					
Specific Habitat	Epibenthic			X		
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic			X	X	
	Epixylous					
	Epiphytic			X		
Emergence	Winter					
	Spring				X	
	Summer					
	Autumn					
Feeding	Predator					
	Herbivore			X		
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V		X			
	Region VI					
	Region VII	X			X	
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII		X	X		

Baetisca becki Schneider and Berner

Parameters		References 179	191	Notes
pH	Acidobiontic	X		
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous	X	X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal	X	X	
	Oligothermal	X		
	Stenothermal			
	Metathermal	X		
	Eurythermal			
Turbid-ity	Eulichtophilous	X	X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X	X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic	X	X	
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Baetisca callosa Traver

Parameters		References 179	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Baetisca carolina Traver

Parameters		References 44	191	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous		X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic		X	
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Baetisca columbiana Edmunds

Parameters		References: 99	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Baetisca escambiensis Berner

Parameters		References 44	191	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous	X		
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal	X	X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous	X	X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X		
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic	X		
	Epipelic			
	Episabulic	X	X	
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn	X	X	
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Baetisca gibbera Berner

Parameters		44	48	191	Notes
pH	Acidobiontic				
	Acidophilous	X			
	Neutral				
	Alkaliphilous	X			
	Alkalibiontic				
	Indifferent	X			
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal			X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous			X	
	Mesolichtophilous			X	
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X			
	Rheobiontic			X	
General Habitat	Lake				
	Pond				
	River	X		X	
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic	X			
	Embenthic				
	Epipelic				
	Episabulic			X	
	Epilithic	X			
	Epixylous	X			
	Epiphytic				
Emergence	Winter				
	Spring			X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

References

Baetisca laurentina McDunnough

Parameters		References																								Notes
		170																								
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous	X																								
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Epipsabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V	X																								
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Baetisca obesa (Say)

Parameters		42	44	46	48	60	61	133	141	149	172	191	Notes
pH	Acidobiontic												
	Acidophilous										X		
	Neutral												
	Alkaliphilous												
	Alkalibiontic												
	Indifferent												
Nutri-ent	Eutrophic												
	Mesotrophic												
	Oligotrophic												
	Dystrophic												
Organ-ics	Saprophilic												
	Facultative												
	Saproxenous												
	Saprophobic											X	
O_2	Euoxyphilous										X		
	Mesoxyphilous												
	Oligoxyphilous												
Tempera-ture	Euthermal												
	Mesothermal						X				X	X	
	Oligothermal										X		
	Stenothermal												
	Metathermal										X		
	Eurythermal												
Turbid-ity	Eulichtophilous											X	
	Mesolichtophilous											X	
	Polylichtophilous												
	Oligolichtophilous												
Current	Limnobiontic												
	Limnophilous												
	Indifferent		X										
	Rheophilous	X	X										
	Rheobiontic											X	
General Habitat	Lake					X				X			
	Pond						X						
	River	X							X			X	
	Stream										X	X	
	Other												
Specific Habitat	Epibenthic	X	X										
	Embenthic												
	Epipelic												
	Episabulic											X	
	Epilithic					X							
	Epixylous		X	X									
	Epiphytic	X	X	X								X	
Emer-gence	Winter		X								X		
	Spring		X				X			X	X	X	
	Summer					X							
	Autumn												
Feeding	Predator												
	Herbivore												
	Omnivore												
	Scavenger												
Geographical Distribution	Region I												
	Region II						X						
	Region III												
	Region IV	X	X	X	X						X	X	
	Region V							X		X			
	Region VI												
	Region VII												
	Region VIII												
	Region IX												
	Region X												
	Region XI					X							
	Region XII								X				

Baetisca rogersi Berner

Parameters		References				Notes
		41	44	48	172	
pH	Acidobiontic					
	Acidophilous				X	
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic				X	
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic				X	
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal				X	
	Stenothermal					
	Metathermal				X	
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River					
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic				X	
	Embenthic					
	Epipelic					
	Episabulic	X			X	
	Epilithic				X	
	Epixylous				X	
	Epiphytic				X	
Emer-gence	Winter					
	Spring	X	X		X	
	Summer	X			X	
	Autumn					
Feeding	Predator					
	Herbivore				X	
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X	X	
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Baetodes arizonensis Koss

Parameters		References 18	References 135	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX	X	X	
	Region X			
	Region XI			
	Region XII			

Baetodes edmundsi Koss

Parameters		References: 135	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI	X	
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Baetodes inermis Cohen and Allen

Parameters		References 19	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(19) Tamaulipas, Mexico and south
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Borinquena carmencita Traver

Parameters		References	Notes
		189	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter	X	
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		(189) Puerto Rico
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Borinquena **contradicens** Traver

Parameters		References 189	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		(189) Puerto Rico
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Brachycercus lacustris (Needham)

Parameters		References		Notes
		38	172	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous		X	
	Saprophobic		X	
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous		X	
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous		X	
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake	X		
	Pond			
	River		X	
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic	X	X	
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV		X	
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Brachycercus maculatus Berner

Parameters		38	172	Notes
pH	Acidobiontic			
	Acidophilous		X	
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal		X	
	Stenothermal			
	Metathermal		X	
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter	X		
	Spring			
	Summer			
	Autumn		X	
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

References

Caenis anceps Traver

Parameters		References 75	References 133	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic	X		
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic	X		
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X		
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore	X		
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X		
	Region IV			
	Region V		X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Caenis diminuta Walker

Parameters		48	60	114	168	172	178	184	191	Notes
pH	Acidobiontic						X			
	Acidophilous					X	X			
	Neutral									
	Alkaliphilous							X		
	Alkalibiontic									
	Indifferent									
Nutrient	Eutrophic									
	Mesotrophic									
	Oligotrophic									
	Dystrophic									
Organics	Saprophilic									
	Facultative									
	Saproxenous									
	Saprophobic									
O_2	Euoxyphilous					X				
	Mesoxyphilous									
	Oligoxyphilous							X		
Temperature	Euthermal									
	Mesothermal					X	X	X	X	
	Oligothermal					X	X			
	Stenothermal							X		
	Metathermal					X	X			
	Eurythermal									
Turbidity	Eulichtophilous									
	Mesolichtophilous									
	Polylichtophilous									
	Oligolichtophilous						X		X	
Current	Limnobiontic									
	Limnophilous		X						X	
	Indifferent									
	Rheophilous									
	Rheobiontic									
General Habitat	Lake						X		X	(184) Spring estuary
	Pond		X						X	
	River							X	X	
	Stream	X				X				
	Other									
Specific Habitat	Epibenthic				X					
	Embenthic									
	Epipelic								X	
	Episabulic									
	Epilithic									
	Epixylous									
	Epiphytic				X					
Emergence	Winter			X						
	Spring		X	X		X			X	
	Summer		X	X	X	X			X	
	Autumn			X		X				
Feeding	Predator									
	Herbivore									
	Omnivore									
	Scavenger									
Geographical Distribution	Region I									
	Region II				X					
	Region III									
	Region IV	X		X		X	X	X	X	
	Region V									
	Region VI									
	Region VII									
	Region VIII									
	Region IX									
	Region X									
	Region XI		X							
	Region XII									

Caenis forcipata McDunnough

Parameters		References				Notes
		109	133	165	191	
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic	X				
Organics	Saprophilic					
	Facultative					
	Saproxenous				X	
	Saprophobic				X	
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous				X	
Current	Limnobiontic				X	
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic					
General Habitat	Lake	X		X		
	Pond				X	
	River					
	Stream					
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic				X	
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic	X				
Emergence	Winter					
	Spring					
	Summer	X			X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I		X			
	Region II					
	Region III					
	Region IV					
	Region V		X			
	Region VI					
	Region VII				X	
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII	X		X		

Caenis hilaris (Say)

Parameters		References					Notes
		48	133	159	172	191	
pH	Acidobiontic						
	Acidophilous				X		
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous					X	
	Saprophobic					X	
O_2	Euoxyphilous				X		
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal				X	X	
	Oligothermal				X		
	Stenothermal						
	Metathermal				X		
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous					X	
	Oligolichtophilous					X	
Current	Limnobiontic					X	
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic						
General Habitat	Lake						
	Pond						
	River					X	
	Stream	X		X	X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic					X	
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring						
	Summer				X	X	
	Autumn				X	X	
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II			X			
	Region III						
	Region IV	X			X	X	
	Region V		X				
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII						

Caenis latipennis Banks

Parameters		29	71	173	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic		X		
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X		
	Oligothermal		X		
	Stenothermal				
	Metathermal				
	Eurythermal		X		
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous		X		
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream		X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic		X		
	Episabulic				
	Epilithic		X		
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore		X		
	Omnivore				
	Scavenger		X		
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V		X		
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X	X		X	
	Region XI			X	
	Region XII			X	

Caenis simulans McDunnough

Parameters		66	126	127	133	149	155	158	173	191	Notes
pH	Acidobiontic										
	Acidophilous										
	Neutral										
	Alkaliphilous	X						X			
	Alkalibiontic										
	Indifferent										
Nutrient	Eutrophic										
	Mesotrophic							X			
	Oligotrophic										
	Dystrophic	X									
Organics	Saprophilic										
	Facultative										
	Saproxenous										
	Saprophobic	X								X	
O_2	Euoxyphilous	X									
	Mesoxyphilous										
	Oligoxyphilous										
Temperature	Euthermal										
	Mesothermal	X	X	X						X	
	Oligothermal	X	X	X							
	Stenothermal										
	Metathermal										
	Eurythermal	X	X	X							
Turbidity	Eulichtophilous										
	Mesolichtophilous	X									
	Polylichtophilous							X			
	Oligolichtophilous									X	
Current	Limnobiontic										
	Limnophilous		X	X						X	
	Indifferent								X		
	Rheophilous	X					X				
	Rheobiontic										
General Habitat	Lake					X			X	X	(126) and (127) Marsh
	Pond								X	X	
	River										
	Stream	X					X	X	X	X	
	Other		X	X							
Specific Habitat	Epibenthic								X		
	Embenthic										
	Epipelic					X				X	
	Episabulic										
	Epilithic					X					
	Epixylous										
	Epiphytic					X			X		
Emergence	Winter										
	Spring		X	X		X			X		
	Summer		X	X		X			X	X	
	Autumn										
Feeding	Predator										
	Herbivore										
	Omnivore										
	Scavenger										
Geographical Distribution	Region I										
	Region II				X						
	Region III										
	Region IV										
	Region V				X	X					
	Region VI						X				
	Region VII									X	
	Region VIII				X						
	Region IX										
	Region X							X	X		
	Region XI		X	X	X						
	Region XII	X									

Callibaetis americanus Banks

Parameters		References		Notes
		26	123	
pH	Acidobiontic			
	Acidophilous			
	Neutral		X	
	Alkaliphilous		X	
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous		X	
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal		X	
	Stenothermal			
	Metathermal		X	
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond		X	
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X	X	
	Summer	X	X	
	Autumn	X		
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X		
	Region IX			
	Region X	X		
	Region XI		X	
	Region XII			

Callibaetis brevicostatus Daggy

Parameters		References																									Notes
		86																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond	X																									
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer	X																									
	Autumn	X																									
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V	X																									
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Callibaetis coloradensis Banks

Parameters		References						Notes
		26	66	173	83	85	100	
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous		X					
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic		X					
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic		X					
O_2	Euoxyphilous		X					
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal		X					
	Oligothermal		X	X				
	Stenothermal							
	Metathermal							
	Eurythermal		X					
Turbid-ity	Eulichtophilous							
	Mesolichtophilous		X					
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous				X			
	Indifferent							
	Rheophilous		X					
	Rheobiontic							
General Habitat	Lake			X	X	X	X	
	Pond			X			X	
	River			X				
	Stream		X					
	Other							
Specific Habitat	Epibenthic					X		
	Embenthic							
	Epipelic			X	X			
	Episabulic							
	Epilithic							
	Epixylous							
	Epiphytic			X		X		
Emer-gence	Winter							
	Spring	X		X				
	Summer	X		X	X			
	Autumn							
Feeding	Predator							
	Herbivore			X				
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V							
	Region VI							
	Region VII							
	Region VIII	X			X	X	X	
	Region IX							
	Region X			X				
	Region XI							
	Region XII		X					

Callibaetis completus Banks

Parameters		References	Notes
		189	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(189) Puerto Rico, Cuba
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Callibaetis doddsi Traver

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Callibaetis ferrugineus (Walsh)

Parameters		References					Notes
		26	55	129	133	149	
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal						
	Oligothermal			X			
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic			X	X		
	Limnophilous						
	Indifferent		X				
	Rheophilous						
	Rheobiontic						
General Habitat	Lake					X	
	Pond		X	X			
	River						
	Stream						
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic			X			
Emer-gence	Winter						
	Spring		X	X			
	Summer			X	X		
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II	X	X		X		
	Region III						
	Region IV						
	Region V	X			X	X	
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI			X			
	Region XII						

Callibaetis floridanus Banks

	Parameters	26	37	43	48	114	184	186	191	Notes
pH	Acidobiontic							X		
	Acidophilous							X		
	Neutral							X		
	Alkaliphilous						X	X		
	Alkalibiontic							X		
	Indifferent							X		
Nutri- ent	Eutrophic									
	Mesotrophic									
	Oligotrophic									
	Dystrophic									
Organ- ics	Saprophilic									
	Facultative							X	X	
	Saproxenous									
	Saprophobic								X	
O_2	Euoxyphilous							X	X	(43) 4.62-7.02 ppm
	Mesoxyphilous							X	X	
	Oligoxyphilous						X	X		
Tempera- ture	Euthermal							X		
	Mesothermal						X	X	X	
	Oligothermal							X		
	Stenothermal						X			
	Metathermal									
	Eurythermal							X		
Turbid- ity	Eulichtophilous								X	
	Mesolichtophilous									
	Polylichtophilous									
	Oligolichtophilous									
Current	Limnobiontic								X	
	Limnophilous						X		X	
	Indifferent									
	Rheophilous									
	Rheobiontic									
General Habitat	Lake								X	(184) Estuary
	Pond						X	X	X	(186) Swamps
	River		X				X		X	
	Stream		X	X				X	X	
	Other		X							
Specific Habitat	Epibenthic		X							
	Embenthic									
	Epipelic									
	Episabulic									
	Epilithic									
	Epixylous									
	Epiphytic			X				X	X	
Emer- gence	Winter		X			X				
	Spring		X					X	X	
	Summer		X					X	X	
	Autumn		X					X		
Feeding	Predator									
	Herbivore							X		
	Omnivore									
	Scavenger									
Geographical Distribution	Region I									
	Region II									
	Region III									
	Region IV	X	X	X	X	X	X	X	X	
	Region V									
	Region VI									
	Region VII									
	Region VIII									
	Region IX									
	Region X									
	Region XI									
	Region XII									

Callibaetis fluctuans (Walsh)

Parameters		26	126	127	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X	X	
	Oligothermal		X	X	
	Stenothermal				
	Metathermal				
	Eurythermal		X	X	
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous		X	X	
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				(126) and (127) Marsh
	Pond				
	River				
	Stream				
	Other		X	X	
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer		X	X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III	X			
	Region IV				
	Region V	X			
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI		X	X	
	Region XII				

Callibaetis montanus Eaton

Parameters		References 116	References 173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous	X		
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond		X	
	River		X	
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			(173) Guatemala? Honduras?
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X		
	Region IX			
	Region X		X	
	Region XI			
	Region XII			

Callibaetis nigritus Banks

Parameters		References				Notes
		34	100	158	173	
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic			X		
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal					
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous			X		
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic					
General Habitat	Lake					
	Pond		X		X	
	River				X	
	Stream			X		
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic				X	
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic				X	
Emer-gence	Winter					
	Spring	X			X	
	Summer		X		X	
	Autumn				X	
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X	X			
	Region IX					
	Region X			X	X	
	Region XI					
	Region XII					

Callibaetis pretiosus Banks

Parameters		References				Notes
		33	114	184	191	
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic				X	
O_2	Euoxyphilous					
	Mesoxyphilous			X		
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal			X	X	
	Oligothermal					
	Stenothermal			X		
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous				X	
	Mesolichtophilous				X	
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic			X	X	
General Habitat	Lake					
	Pond					
	River			X	X	
	Stream					
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic				X	
Emer-gence	Winter		X			
	Spring		X		X	
	Summer	X	X			
	Autumn		X			
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III	X				
	Region IV		X	X	X	
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Callibaetis semicostatus Banks

	Parameters	References	Notes
		33	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Callibaetis signatus Banks

Parameters		References: 34	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Callibaetis skokianus Needham

Parameters		References		Notes
		123	133	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous	X		
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous	X		
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal	X		
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond	X		
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V		X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Centroptilum bellum McDunnough

Parameters		References	Notes
		123	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic	X	
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Centroptilum bifurcatum McDunnough

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII	X	

Centroptilum convexum Ide

Parameters		References: 123	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral	X	
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous	X	
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal	X	
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic	X	
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Centroptilum fragile McDunnough

	Parameters	References		Notes
		149	153	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake	X		
	Pond			
	River		X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic	X		
Emergence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Centroptilum hobbsi Berner

Parameters		References		Notes
		38	48	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X	X	
	Other	X		
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter	X		
	Spring	X		
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Centroptilum infrequens McDunnough

Parameters		References	Notes
		165	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake	X	(165) Lake?
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Centroptilum oreophilum Edmunds

Parameters		References	Notes
		91	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Centroptilum quaesitum McDunnough

Parameters		References 165	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake	X	
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Centroptilum rufostrigatum McDunnough

Parameters		References				Notes
		156	157	163	86	
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous		X			
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal			X		
	Oligothermal		X	X		
	Stenothermal					
	Metathermal		X	X		
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X	X			
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River				X	
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring					
	Summer				X	
	Autumn				X	
Feeding	Predator					
	Herbivore	X				
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X		
	Region V				X	
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Centroptilum selanderorum Edmunds

Parameters		References: 91	References: 173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring	X		
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X	X	
	Region IX			
	Region X		X	
	Region XI			
	Region XII			

Centroptilum viridocularis Berner

Parameters		37	48	114	191	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic				X	
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous				X	
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X			X	
	Stream	X	X			
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic				X	
Emer-gence	Winter	X		X		
	Spring	X		X	X	
	Summer	X				
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X	X	
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Choroterpes albiannulata McDunnough

Parameters		References 100	References 173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous		X	
	Oligoxyphilous			
Temper-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous		X	
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X	X	
	Region IX			
	Region X		X	
	Region XI			
	Region XII		X	

Choroterpes basalis (Banks)

Parameters		References			Notes
		149	157	168	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic		X		
General Habitat	Lake	X			
	Pond				
	River				
	Stream		X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic	X			
	Epipelic	X			
	Episabulic				
	Epilithic				
	Epixylous	X			
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer	X		X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger	X			
Geographical Distribution	Region I				
	Region II		X	X	
	Region III				
	Region IV				
	Region V	X			
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Choroterpes crocatus Allen

Parameters		22	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII	X	
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Choroterpes fusca Spieth

Parameters		References	Notes
		181	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Choroterpes hubbelli Berner

Parameters		38	191	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic	X		
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous		X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake	X		(38) Spring and sinkhole (191) Spring
	Pond			
	River			
	Stream	X	X	
	Other	X	X	
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic		X	
Emer-gence	Winter			
	Spring	X	X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Choroterpes inornata Eaton

Parameters		20	28	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			(20) Sonora, Mexico
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII	X		
	Region IX	X		
	Region X			
	Region XI			
	Region XII			

Choroterpes kossi Allen

Parameters		References 22	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI	X	
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Choroterpes mexicanus Allen

Parameters		22	74	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring		X	
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			(22) Nuevo Leon Tamaulipas Chihuahua
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Cinygma dimicki McDunnough

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Cinygma integrum Eaton

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal	X	
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous	X	
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Cinygmula mimus (Eaton)

Parameters		References 107	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal	X		
	Stenothermal			
	Metathermal	X		
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic	X		
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X		
	Region IX			
	Region X		X	
	Region XI			
	Region XII			

Cinygmula par (Eaton)

Parameters		115	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal	X	X	
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic		X	
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn		X	
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X		
	Region IX			
	Region X		X	
	Region XI			
	Region XII			

Cinygmula ramaleyi (Dodds)

Parameters		173	176	83	84	85	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal						
	Oligothermal		X				
	Stenothermal						
	Metathermal		X				
	Eurythermal						
Turbid-ity	Eulichtophilous		X			X	
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent			X	X	X	
	Rheophilous		X				
	Rheobiontic						
General Habitat	Lake			X	X	X	
	Pond						
	River						
	Stream	X	X	X	X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic			X		X	
	Epipelic						
	Episabulic						
	Epilithic			X	X	X	
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring						
	Summer	X	X	X			
	Autumn		X				
Feeding	Predator						
	Herbivore		X				
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV						
	Region V						
	Region VI						
	Region VII						
	Region VIII	X		X	X	X	
	Region IX						
	Region X	X					
	Region XI						
	Region XII		X				

Cinygmula reticulata McDunnough

Parameters		143	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal	X		
	Oligothermal	X		
	Stenothermal			
	Metathermal	X		
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous	X		
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X		
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X	X	
	Summer	X	X	
	Autumn	X		
Feeding	Predator			
	Herbivore	X		
	Omnivore			
	Scavenger	X		
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII			

Cinygmula subaequalis (Banks)

Parameters		References																									Notes
		133	33																								
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River		X																								
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring		X																								
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I	X																									
	Region II																										
	Region III																										
	Region IV		X																								
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Cinygmula tarda (McDunnough)

Parameters		References: 173	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Cloeodes consignatus Traver

Parameters		189	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(189) Puerto Rico
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Cloeodes maculipes Traver

Parameters		References	Notes
		189	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(189) Puerto Rico
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Cloeon implicatum McDunnough

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri- ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ- ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera- ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid- ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer- gence	Winter		
	Spring		
	Summer	X	
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII	X	

Cloeon ingens McDunnough

Parameters		References	Notes
		153	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Cloeon mendax (Walsh)

Parameters		References 123	168	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake		X	
	Pond	X		
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic	X		
Emer-gence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II		X	
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Cloeon rubropictum McDunnough

Parameters		References						
		48	123	149	153	184	191	
pH	Acidobiontic							
	Acidophilous							
	Neutral		X					
	Alkaliphilous					X		
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic						X	
O_2	Euoxyphilous					X		
	Mesoxyphilous		X					
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal		X			X	X	
	Oligothermal							
	Stenothermal					X		
	Metathermal							
	Eurythermal							
Turbid-ity	Eulichtophilous							X
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic							
General Habitat	Lake		X	X				
	Pond							
	River					X	X	
	Stream	X						
	Other							
Specific Habitat	Epibenthic			X				
	Embenthic							
	Epipelic			X				
	Episabulic							
	Epilithic			X				
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring			X	X		X	
	Summer		X	X	X			
	Autumn			X				
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV	X				X	X	
	Region V			X				
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI		X		X			
	Region XII							

Notes

Cloeon vicinum (Hagen)

Parameters		References																									Notes
		168																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake	X																									
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II	X																									
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Dactylobaetis cepheus Traver and Edmunds

Parameters		References: 173	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Dolania americana Edmunds and Traver

Parameters		97	151	191	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X	X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic	X	X	X	
General Habitat	Lake				
	Pond				
	River	X		X	
	Stream				
	Other				
Specific Habitat	Epibenthic				
	Embenthic	X	X		
	Epipelic				
	Episabulic	X	X	X	
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring			X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X		X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Edmundsius agilis Day

Parameters		References	Notes
		79	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal	X	
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous	X	
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Epeorus albertae (McDunnough)

Parameters		References 100	102	103	117	173	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative				X		
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal	X		X	X	X	
	Oligothermal						
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous		X	X	X	X	
	Rheobiontic						
General Habitat	Lake						
	Pond						
	River		X	X	X	X	
	Stream	X	X	X	X	X	
	Other						
Specific Habitat	Epibenthic		X	X			
	Embenthic						
	Epipelic				X		
	Episabulic						
	Epilithic		X	X	X	X	
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring						
	Summer			X		X	
	Autumn						
Feeding	Predator						
	Herbivore				X		
	Omnivore						
	Scavenger				X		
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV						
	Region V						
	Region VI						
	Region VII						
	Region VIII	X	X				
	Region IX		X				
	Region X		X		X	X	
	Region XI						
	Region XII		X				

Epeorus deceptivus (McDunnough)

Parameters		103	139	173	176	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal		X			
	Oligothermal		X		X	
	Stenothermal					
	Metathermal		X		X	
	Eurythermal					
Turbidity	Eulichtophilous				X	
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous			X	X	
	Rheobiontic	X	X			
General Habitat	Lake					
	Pond					
	River					
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic	X	X	X		
	Epixylous					
	Epiphytic					
Emergence	Winter					
	Spring					
	Summer	X	X	X		
	Autumn					
Feeding	Predator					
	Herbivore				X	
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI	X				
	Region VII					
	Region VIII	X				
	Region IX	X				
	Region X	X	X	X		
	Region XI					
	Region XII	X		X	X	

Epeorus fragilis (Morgan)

Parameters		References 159	161	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal	X		
	Stenothermal			
	Metathermal	X		
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X		
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II	X		
	Region III		X	
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Epeorus frisoni (Burks)

Parameters		References	Notes
		53	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		(53) Spring
	Pond		
	River		
	Stream		
	Other	X	
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Epeorus grandis (McDunnough)

Parameters		117	173	188	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral			X	
	Alkaliphilous	X			
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal		X	X	
	Stenothermal				
	Metathermal			X	
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous			X	
	Rheobiontic	X	X		
General Habitat	Lake				
	Pond				
	River		X	X	
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic	X			
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic	X	X	X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI				
	Region VII				
	Region VIII			X	
	Region IX				
	Region X	X	X		
	Region XI				
	Region XII		X		

Epeorus hesperus (Banks)

Parameters		References																									Notes
		35																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X	X																									
	Region XI																										
	Region XII																										

Epeorus longimanus (Eaton)

Parameters		56	83	84	100	102	103	117	139	158	173	176	188	Notes
pH	Acidobiontic													
	Acidophilous													
	Neutral												X	
	Alkaliphilous							X		X				
	Alkalibiontic													
	Indifferent													
Nutri-ent	Eutrophic													
	Mesotrophic									X				
	Oligotrophic													
	Dystrophic													
Organ-ics	Saprophilic													
	Facultative													
	Saproxenous													
	Saprophobic							X						
O_2	Euoxyphilous		X											
	Mesoxyphilous													
	Oligoxyphilous													
Tempera-ture	Euthermal													(56) 15-20°
	Mesothermal	X											X	
	Oligothermal				X	X	X		X		X	X	X	
	Stenothermal													
	Metathermal								X			X	X	
	Eurythermal													
Turbid-ity	Eulichtophilous											X		
	Mesolichtophilous													
	Polylichtophilous									X				
	Oligolichtophilous													
Current	Limnobiontic													
	Limnophilous													
	Indifferent													
	Rheophilous	X				X		X				X	X	
	Rheobiontic		X	X			X		X		X			
General Habitat	Lake													
	Pond													
	River	X				X		X					X	
	Stream		X	X	X	X	X	X	X	X	X	X		
	Other													
Specific Habitat	Epibenthic		X				X							
	Embenthic													
	Epipelic													
	Episabulic													
	Epilithic		X	X			X	X	X		X		X	
	Epixylous													
	Epiphytic													
Emer-gence	Winter													
	Spring								X					
	Summer				X		X		X		X			
	Autumn													
Feeding	Predator													
	Herbivore							X				X		
	Omnivore													
	Scavenger							X						
Geographical Distribution	Region I													(103) Alaska
	Region II													
	Region III													
	Region IV													
	Region V													
	Region VI						X							
	Region VII													
	Region VIII		X	X	X	X	X						X	
	Region IX						X							
	Region X	X					X	X	X	X	X			
	Region XI													
	Region XII						X					X		

Epeorus margarita Edmunds and Allen

Parameters		References: 103	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous	X	
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Epeorus namatus (Burks)

Parameters		References: 53	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I	X	
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Epeorus pleuralis (Banks)

Parameters		123	156	157	161	163	181	32	Notes
pH	Acidobiontic								
	Acidophilous								
	Neutral								
	Alkaliphilous	X		X					
	Alkalibiontic								
	Indifferent								
Nutrient	Eutrophic								
	Mesotrophic								
	Oligotrophic								
	Dystrophic								
Organics	Saprophilic								
	Facultative								
	Saproxenous								
	Saprophobic								
O_2	Euoxyphilous	X		X					
	Mesoxyphilous								
	Oligoxyphilous								
Temperature	Euthermal								
	Mesothermal	X				X			
	Oligothermal	X		X	X	X	X		
	Stenothermal								
	Metathermal	X		X	X				
	Eurythermal					X			
Turbidity	Eulichtophilous								
	Mesolichtophilous								
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent								
	Rheophilous			X					
	Rheobiontic	X				X			
General Habitat	Lake								
	Pond	X							
	River								
	Stream	X	X	X	X	X	X		
	Other								
Specific Habitat	Epibenthic								
	Embenthic								
	Epipelic								
	Episabulic								
	Epilithic				X	X			
	Epixylous								
	Epiphytic								
Emergence	Winter					X			
	Spring								
	Summer								
	Autumn								
Feeding	Predator								
	Herbivore		X			X			
	Omnivore								
	Scavenger								
Geographical Distribution	Region I								
	Region II						X	X	
	Region III				X				
	Region IV		X	X		X			
	Region V						X		
	Region VI								
	Region VII								
	Region VIII								
	Region IX								
	Region X								
	Region XI	X							
	Region XII								

Epeorus subpallidus (Traver)

Parameters		References																									Notes
		118																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV	X																									
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Epeorus vitreus (Walker)

Parameters		123	159	192	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous	X			
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic			X	
	Dystrophic			X	
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous	X		X	
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal	X			
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic		X	X	
General Habitat	Lake				
	Pond				
	River			X	
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic			X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring	X	X	X	
	Summer	X		X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger			X	
Geographical Distribution	Region I				
	Region II		X		
	Region III			X	
	Region IV				
	Region V			X	
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Ephemera blanda Traver

Parameters		References																									Notes
		151																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV	X																									
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Ephemera guttulata Pictet

Parameters		133	136	151	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic		X		
General Habitat	Lake				
	Pond				
	River			X	
	Stream		X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic		X		
	Epipelic				
	Episabulic		X		
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring		X	X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X		X	
	Region II			X	
	Region III			X	
	Region IV		X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Ephemera simulans Walker

Parameters		References																		Notes
		52	60	65	66	71	75	76	106	109	112	123	133	149	151	162	170	175	191	
pH	Acidobiontic																			(52) 7.5-8.6
	Acidophilous																			(65) 7.2-8.2
	Neutral											X				X				
	Alkaliphilous	X		X	X			X								X				
	Alkalibiontic																			
	Indifferent																			
Nutri-ent	Eutrophic																			
	Mesotrophic	X																		
	Oligotrophic	X		X			X									X				
	Dystrophic				X					X										
Organ-ics	Saprophilic																			
	Facultative																			
	Saproxenous			X															X	
	Saprophobic				X	X	X									X				
O_2	Euoxyphilous			X	X	X		X								X				(106) 1.3 %
	Mesoxyphilous											X					X			
	Oligoxyphilous																			
Tempera-ture	Euthermal																			(52) 0-30°
	Mesothermal	X		X	X	X		X				X				X			X	
	Oligothermal	X			X	X		X				X				X		X		
	Stenothermal																	X		
	Metathermal			X								X				X				
	Eurythermal	X			X	X		X												
Turbid-ity	Eulichtophilous																			
	Mesolichtophilous			X	X											X			X	
	Polylichtophilous																			
	Oligolichtophilous																			
Current	Limnobiontic																			
	Limnophilous									X										
	Indifferent							X												
	Rheophilous			X	X	X	X											X	X	
	Rheobiontic																			
General Habitat	Lake		X							X	X	X		X					X	
	Pond																			
	River										X							X	X	
	Stream	X		X	X	X	X	X							X	X			X	
	Other																			
Specific Habitat	Epibenthic																			
	Embenthic					X		X						X					X	
	Epipelic															X			X	
	Episabulic	X				X								X		X		X		
	Epilithic	X				X	X	X										X		
	Epixylous																			
	Epiphytic																			
Emer-gence	Winter																			
	Spring		X					X			X			X	X					
	Summer		X							X	X	X		X		X		X	X	
	Autumn																			
Feeding	Predator						X													
	Herbivore					X														
	Omnivore																			
	Scavenger					X														
Geographical Distribution	Region I												X		X					
	Region II														X					
	Region III						X								X					
	Region IV														X	X				
	Region V					X					X		X	X	X		X			
	Region VI														X					
	Region VII			X															X	
	Region VIII												X		X					
	Region IX																			
	Region X														X			X		
	Region XI	X	X					X				X								
	Region XII				X					X										

Ephemera traverae Spieth

Parameters		References		Notes
		151	181	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X	X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemera triplex Traver

Parameters		References		Notes
		133	151	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X	X	
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemera varia Eaton

Parameters		75	133	151	168	159	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic	X					
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic	X					
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal						
	Oligothermal						
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous	X					
	Rheobiontic						
General Habitat	Lake						
	Pond						
	River			X	X		
	Stream	X		X		X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic					X	
	Episabulic						
	Epilithic	X					
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring					X	
	Summer			X		X	
	Autumn						
Feeding	Predator						
	Herbivore	X					
	Omnivore						
	Scavenger	X					
Geographical Distribution	Region I		X	X			
	Region II			X	X	X	
	Region III	X		X			
	Region IV			X			
	Region V			X			
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII						

Ephemerella aestiva McDunnough

Parameters		11	75	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic		X	
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore		X	
	Omnivore			
	Scavenger		X	
Geographical Distribution	Region I			
	Region II			
	Region III		X	
	Region IV			
	Region V	X		
	Region VI			
	Region VII	X		
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Ephemerella alleghenienais Traver

Parameters		References																									Notes
		9																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutri-ent	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organ-ics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Tempera-ture	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbid-ity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emer-gence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III	X																									
	Region IV	X																									
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Ephemerella alleni Jensen and Edmunds

Parameters		References		Notes
		125	173	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal	X	X	
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X	X	
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic	X		
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X		
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII			

Ephemerella altana Allen

Parameters		16	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI	X	
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

References

Ephemerella argo Burks

Parameters		References 12	54	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella attenuata McDunnough

Parameters		References					Notes
		7	133	38	48	191	
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic					X	
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal					X	
	Oligothermal						
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous					X	
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic					X	
General Habitat	Lake						
	Pond						
	River	X				X	
	Stream	X		X	X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic					X	
Emer-gence	Winter						
	Spring					X	
	Summer						
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I	X					
	Region II	X					
	Region III	X					
	Region IV	X		X	X	X	
	Region V	X	X				
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI	X					
	Region XII						

Ephemerella aurivillii (Bengtsson)

Parameters		12	16	49	173	188	123	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral					X	X	
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous						X	
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal					X		
	Oligothermal				X	X	X	
	Stenothermal							
	Metathermal					X		
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous					X	X	
	Rheobiontic							
General Habitat	Lake							
	Pond							
	River	X			X	X		
	Stream	X			X		X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic					X		
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring						X	
	Summer				X		X	
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I	X						(12) Europe, Asia, Alaska
	Region II							
	Region III	X						
	Region IV							
	Region V	X						
	Region VI							
	Region VII							
	Region VIII		X			X		
	Region IX	X	X					
	Region X	X	X		X			
	Region XI	X		X			X	
	Region XII		X					

Ephemerella berneri Allen and Edmunds

Parameters		References		Notes
		3	12	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X	X	
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella bicolor Clemens

Parameters		References						Notes
		11	60	65	123	133	149	
pH	Acidobiontic							
	Acidophilous							
	Neutral				X			
	Alkaliphilous			X				
	Alkalibiontic							
	Indifferent							
Nutrient	Eutrophic							
	Mesotrophic							
	Oligotrophic			X				
	Dystrophic							
Organics	Saprophilic							
	Facultative							
	Saproxenous			X				
	Saprophobic							
O_2	Euoxyphilous			X	X			
	Mesoxyphilous				X			
	Oligoxyphilous							
Temperature	Euthermal							
	Mesothermal			X	X			
	Oligothermal				X			
	Stenothermal							
	Metathermal			X	X			
	Eurythermal							
Turbidity	Eulichtophilous							
	Mesolichtophilous			X				
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous			X				
	Rheobiontic							
General Habitat	Lake	X	X		X		X	
	Pond				X			
	River	X						
	Stream			X	X			
	Other							
Specific Habitat	Epibenthic						X	
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic						X	
	Epixylous						X	
	Epiphytic						X	
Emergence	Winter							
	Spring				X		X	
	Summer		X		X		X	
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II	X						
	Region III							
	Region IV	X						
	Region V	X				X	X	
	Region VI							
	Region VII	X		X				
	Region VIII							
	Region IX							
	Region X							
	Region XI	X	X		X			
	Region XII							

Ephemerella carolina Berner and Allen

Parameters		10	51	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X	X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic	X		
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella **cascadia** Allen and Edmunds

	Parameters	References 6	References 173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal		X	
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX	X		
	Region X	X	X	
	Region XI			
	Region XII			

Ephemerella _catawba_ Traver

Parameters		References																								Notes
		12																								
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutri-ent	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organ-ics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Tempera-ture	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbid-ity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River	X																								
	Stream	X																								
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emer-gence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III	X																								
	Region IV	X																								
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Ephemerella choctawhatchee Berner

Parameters		12	38	48	172	Notes
pH	Acidobiontic					
	Acidophilous				X	
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous				X	
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal				X	
	Stenothermal					
	Metathermal				X	
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River					
	Stream		X	X	X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter				X	
	Spring				X	
	Summer					
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X	X	
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Ephemerella coloradensis Dodds

Parameters		References								Notes
		9	83	84	107	117	133	173	176	
pH	Acidobiontic									
	Acidophilous									
	Neutral									
	Alkaliphilous					X				
	Alkalibiontic									
	Indifferent									
Nutrient	Eutrophic									
	Mesotrophic									
	Oligotrophic									
	Dystrophic									
Organics	Saprophilic									
	Facultative									
	Saproxenous									
	Saprophobic									
O_2	Euoxyphilous									
	Mesoxyphilous									
	Oligoxyphilous									
Temperature	Euthermal									
	Mesothermal									
	Oligothermal	X			X			X	X	
	Stenothermal									
	Metathermal	X			X			X	X	
	Eurythermal									
Turbidity	Eulichtophilous								X	
	Mesolichtophilous									
	Polylichtophilous									
	Oligolichtophilous									
Current	Limnobiontic									
	Limnophilous									
	Indifferent									
	Rheophilous	X		X					X	
	Rheobiontic				X	X		X		
General Habitat	Lake									
	Pond									
	River							X		
	Stream	X	X	X	X	X		X	X	
	Other									
Specific Habitat	Epibenthic				X	X				
	Embenthic									
	Epipelic									
	Episabulic									
	Epilithic	X		X	X	X		X		
	Epixylous									
	Epiphytic	X						X		
Emergence	Winter									
	Spring									
	Summer	X	X							
	Autumn	X						X		
Feeding	Predator									
	Herbivore									
	Omnivore									
	Scavenger									
Geographical Distribution	Region I									(9) Also Alaska
	Region II									
	Region III									
	Region IV	X								
	Region V									
	Region VI	X								
	Region VII									
	Region VIII	X	X	X	X					
	Region IX	X								
	Region X	X				X	X	X		
	Region XI									
	Region XII	X							X	

Ephemerella conestee Traver

Parameters		References		Notes
		9	118	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella cornuta Morgan

Parameters		References				Notes
		9	133	159	123	
pH	Acidobiontic					
	Acidophilous					
	Neutral				X	
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous				X	
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal					
	Oligothermal				X	
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X				
	Stream	X			X	
	Other					
Specific Habitat	Epibenthic				X	
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic				X	
	Epixylous					
	Epiphytic				X	
Emergence	Winter					
	Spring			X	X	
	Summer			X	X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I	X	X	X		
	Region II	X		X		
	Region III	X				
	Region IV	X				
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI	X			X	
	Region XII					

Ephemerella cornutella McDunnough

Parameters		References 9	49	133	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic		X		
General Habitat	Lake				
	Pond				
	River	X			
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X			
	Region II	X			
	Region III	X			
	Region IV	X			
	Region V	X			
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X	X	X	
	Region XII				

Ephemerella coxalis McDunnough

Parameters		References: 11	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake	X	
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I	X	
	Region II		
	Region III		
	Region IV	X	
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Ephemerella crenula Allen and Edmunds

Parameters		References	Notes
		12	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Ephemerella deficiens Morgan

Parameters		10	51	76	123	133	159	191	Notes
pH	Acidobiontic								
	Acidophilous								
	Neutral				X				
	Alkaliphilous			X					
	Alkalibiontic								
	Indifferent								
Nutrient	Eutrophic								
	Mesotrophic								
	Oligotrophic								
	Dystrophic								
Organics	Saprophilic								
	Facultative								
	Saproxenous								
	Saprophobic								
O_2	Euoxyphilous			X	X				
	Mesoxyphilous								
	Oligoxyphilous								
Temperature	Euthermal								
	Mesothermal			X	X			X	
	Oligothermal			X					
	Stenothermal								
	Metathermal								
	Eurythermal			X					
Turbidity	Eulichtophilous								
	Mesolichtophilous							X	
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent								
	Rheophilous	X		X			X	X	
	Rheobiontic		X					X	
General Habitat	Lake								
	Pond								
	River	X	X						
	Stream	X	X	X	X		X	X	
	Other								
Specific Habitat	Epibenthic								
	Embenthic								
	Epipelic								
	Episabulic								
	Epilithic	X	X						
	Epixylous								
	Epiphytic	X	X					X	
Emergence	Winter								
	Spring	X	X	X				X	
	Summer	X	X	X	X				
	Autumn								
Feeding	Predator								
	Herbivore								
	Omnivore								
	Scavenger								
Geographical Distribution	Region I	X				X			
	Region II	X					X		
	Region III	X							
	Region IV	X	X					X	
	Region V	X				X			
	Region VI								
	Region VII								
	Region VIII								
	Region IX								
	Region X								
	Region XI	X		X	X	X			
	Region XII								

Ephemerella delantala Mayo

Parameters		References	Notes
		7	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal	X	
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous	X	
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X	X	
	Region XI		
	Region XII		

Ephemerella doddsi Needham

Parameters		9	24	102	115	116	117	133	158	173	176	183	188	Notes
pH	Acidobiontic													
	Acidophilous													
	Neutral												X	
	Alkaliphilous		X				X		X			X		
	Alkalibiontic													
	Indifferent													
Nutri-ent	Eutrophic													
	Mesotrophic								X					
	Oligotrophic													
	Dystrophic													
Organ-ics	Saprophilic													
	Facultative													
	Saproxenous													
	Saprophobic											X		
O_2	Euoxyphilous											X		
	Mesoxyphilous					X								
	Oligoxyphilous													
Tempera-ture	Euthermal													
	Mesothermal		X									X	X	
	Oligothermal	X	X		X					X	X		X	
	Stenothermal													
	Metathermal									X	X		X	
	Eurythermal		X											
Turbid-ity	Eulichtophilous										X	X		
	Mesolichtophilous													
	Polylichtophilous								X					
	Oligolichtophilous													
Current	Limnobiontic													
	Limnophilous													
	Indifferent													
	Rheophilous										X	X	X	
	Rheobiontic	X		X			X			X				
General Habitat	Lake													
	Pond	X												
	River	X	X				X			X		X	X	
	Stream			X	X	X	X		X	X	X			
	Other													
Specific Habitat	Epibenthic						X							
	Embenthic													
	Epipelic													
	Episabulic													
	Epilithic	X	X				X			X		X	X	
	Epixylous													
	Epiphytic													
Emer-gence	Winter													
	Spring									X				
	Summer	X								X	X			
	Autumn													
Feeding	Predator						X							
	Herbivore						X							
	Omnivore						X							
	Scavenger						X							
Geographical Distribution	Region I													(9) Alaska
	Region II													
	Region III													
	Region IV													
	Region V													
	Region VI	X												
	Region VII													
	Region VIII	X	X	X	X	X		X					X	
	Region IX	X												
	Region X	X					X		X	X		X		
	Region XI													
	Region XII	X									X			

Ephemerella _doris_ Traver

Parameters		References: 11	118	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake		X	
	Pond			
	River	X		
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella dorothea Needham

Parameters		12	133	168	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River	X			
	Stream	X		X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic			X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X	X		
	Region II	X		X	
	Region III	X			
	Region IV	X			
	Region V	X			
	Region VI				
	Region VII	X			
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Ephemerella edmundsi Allen

Parameters		5	6	57	117	173	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous				X		
	Alkalibiontic						
	Indifferent						
Nutrient	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Temperature	Euthermal						
	Mesothermal						
	Oligothermal					X	
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbidity	Eulichtophilous						
	Mesolichtophilous			X			
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous			X			
	Rheobiontic				X		
General Habitat	Lake						
	Pond						
	River		X				
	Stream	X	X	X	X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emergence	Winter						
	Spring						
	Summer						
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV						
	Region V						
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X	X	X	X	X	X	
	Region XI						
	Region XII						

Ephemerella excrucians Walsh

Parameters		12	54	76	123	146	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral				X		
	Alkaliphilous			X			
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous			X	X		
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal			X			
	Oligothermal			X	X		
	Stenothermal						
	Metathermal						
	Eurythermal			X			
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous			X			
	Rheobiontic					X	
General Habitat	Lake						
	Pond				X		
	River	X				X	
	Stream			X			
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic					X	
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring				X	X	
	Summer			X	X		
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III	X					
	Region IV						
	Region V	X				X	
	Region VI	X	X				
	Region VII	X					
	Region VIII						
	Region IX						
	Region X						
	Region XI	X		X	X		
	Region XII						

Ephemerella flavilinea McDunnough

Parameters		9	24	56	57	117	173	188	Notes
pH	Acidobiontic								
	Acidophilous								
	Neutral							X	
	Alkaliphilous		X			X			
	Alkalibiontic								
	Indifferent								
Nutri-ent	Eutrophic								
	Mesotrophic								
	Oligotrophic								
	Dystrophic								
Organ-ics	Saprophilic								
	Facultative								
	Saproxenous								
	Saprophobic					X			
O_2	Euoxyphilous								
	Mesoxyphilous								
	Oligoxyphilous								
Tempera-ture	Euthermal								(56) 16-20
	Mesothermal	X	X	X				X	
	Oligothermal		X				X	X	
	Stenothermal								
	Metathermal		X				X	X	
	Eurythermal								
Turbid-ity	Eulichtophilous								
	Mesolichtophilous				X				
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent								
	Rheophilous	X		X	X			X	
	Rheobiontic					X	X		
General Habitat	Lake								
	Pond								
	River	X	X	X		X	X	X	
	Stream	X			X	X	X		
	Other								
Specific Habitat	Epibenthic								
	Embenthic								
	Epipelic								
	Episabulic								
	Epilithic	X	X		X	X		X	
	Epixylous								
	Epiphytic	X							
Emer-gence	Winter								
	Spring								
	Summer	X					X		
	Autumn								
Feeding	Predator								
	Herbivore					X			
	Omnivore					X			
	Scavenger					X			
Geographical Distribution	Region I								(9) Baja California
	Region II								
	Region III								
	Region IV								
	Region V								
	Region VI								
	Region VII								
	Region VIII	X	X				X	X	
	Region IX	X							
	Region X	X		X	X	X	X		
	Region XI								
	Region XII	X					X		

Ephemerella frisoni McDunnough

Parameters		References																									Notes
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutri-ent	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organ-ics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Tempera-ture	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbid-ity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous	X	X																							
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River	X																								
	Stream	X	X																							
	Other																									
Specific Habitat	Epibenthic		X																							
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic	X	X																							
Emer-gence	Winter																									
	Spring																									
	Summer	X																								
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV	X	X																							
	Region V	X																								
	Region VI	X																								
	Region VII	X																								
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Ephemerella _funeralis_ McDunnough

Parameters		11	133	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I	X		
	Region II	X	X	
	Region III			
	Region IV	X		
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Ephemerella grandis Eaton

Parameters		References																		Notes
		9	20	28	83	84	100	102	115	116	117	133	158	173	183	24	131	188	78	
pH	Acidobiontic																			
	Acidophilous															X				
	Neutral																	X		
	Alkaliphilous										X		X		X					
	Alkalibiontic																			
	Indifferent																			
Nutrient	Eutrophic																			
	Mesotrophic												X							
	Oligotrophic																			
	Dystrophic																			
Organics	Saprophilic																			
	Facultative																			
	Saproxenous																			
	Saprophobic										X				X					
O_2	Euoxyphilous														X					
	Mesoxyphilous									X										
	Oligoxyphilous																			
Temperature	Euthermal																			
	Mesothermal	X					X		X					X	X	X		X		
	Oligothermal						X		X									X		
	Stenothermal																			
	Metathermal															X		X		
	Eurythermal																			
Turbidity	Eulichtophilous														X					
	Mesolichtophilous																			
	Polylichtophilous							X				X								
	Oligolichtophilous							X												
Current	Limnobiontic																			
	Limnophilous																			
	Indifferent																			
	Rheophilous				X	X								X	X			X		
	Rheobiontic							X			X						X			
General Habitat	Lake																			
	Pond																			
	River	X	X								X			X	X	X	X	X		
	Stream	X	X		X	X	X	X	X	X	X		X	X					X	
	Other																			
Specific Habitat	Epibenthic					X														
	Embenthic																			
	Epipelic																			
	Episabulic																			
	Epilithic				X	X					X			X	X	X		X		
	Epixylous										X									
	Epiphytic										X									
Emergence	Winter																			
	Spring	X						X						X						
	Summer	X	X					X						X			X		X	
	Autumn																			
Feeding	Predator																			
	Herbivore										X									
	Omnivore										X									
	Scavenger										X									
Geographical Distribution	Region I																			
	Region II																			
	Region III																			
	Region IV																			
	Region V																			
	Region VI	X	X	X																
	Region VII																			
	Region VIII	X	X		X	X	X	X	X	X						X	X	X		
	Region IX	X	X																X	
	Region X	X									X	X	X	X	X					
	Region XI																			
	Region XII	X																		

Ephemerella hecuba Faton

Parameters		4	7	102	117	173	133	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous				X			
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative				X			
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal		X					
	Oligothermal							
	Stenothermal							
	Metathermal		X					
	Eurythermal							
Turbid-ity	Eulichtophilous	X						
	Mesolichtophilous		X					
	Polylichtophilous	X						
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous	X	X			X		
	Rheobiontic							
General Habitat	Lake							
	Pond							
	River	X		X	X	X		
	Stream	X	X	X	X	X		
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic				X			
	Episabulic							
	Epilithic	X	X		X	X		
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring							
	Summer					X		
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V							
	Region VI	X						
	Region VII							
	Region VIII	X		X				
	Region IX	X						
	Region X	X			X	X	X	
	Region XI							
	Region XII							

Ephemerella heterocaudata McDunnough

Parameters		6	24	173	188	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral				X	
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal		X		X	
	Oligothermal		X	X	X	
	Stenothermal					
	Metathermal		X	X	X	
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X		X	X	
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River	X	X	X	X	
	Stream	X				
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X	X	X	
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring	X				
	Summer			X		
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X	X		X	
	Region IX	X				
	Region X	X		X		
	Region XI					
	Region XII	X				

Ephemerella hispida Allen and Edmunds

Parameters		References: 12	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Ephemerella _hystrix_ Traver

Parameters		6	117	173	188	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral				X	
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutri- ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ- ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera- ture	Euthermal					
	Mesothermal				X	
	Oligothermal			X	X	
	Stenothermal					
	Metathermal				X	
	Eurythermal					
Turbid- ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous			X	X	
	Rheobiontic		X			
General Habitat	Lake					
	Pond					
	River	X		X	X	
	Stream		X			
	Other					
Specific Habitat	Epibenthic		X			
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X	X	X	
	Epixylous					
	Epiphytic		X			
Emer- gence	Winter					
	Spring					
	Summer			X		
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X		X	X	
	Region IX	X				
	Region X	X	X	X		
	Region XI					
	Region XII	X				

Ephemerella inconstans Traver

Parameters		12	118	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral		X	
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake	X		
	Pond			
	River	X		
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X		
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella inermis Eaton

Parameters		12	16	57	100	102	130	131	158	173	183	188	Notes
pH	Acidobiontic												
	Acidophilous												
	Neutral											X	
	Alkaliphilous								X		X		
	Alkalibiontic												
	Indifferent												
Nutri-ent	Eutrophic												
	Mesotrophic								X				
	Oligotrophic												
	Dystrophic												
Organ-ics	Saprophilic												
	Facultative												
	Saproxenous												
	Saprophobic										X		
O_2	Euoxyphilous										X		
	Mesoxyphilous												
	Oligoxyphilous												
Tempera-ture	Euthermal												
	Mesothermal	X									X	X	
	Oligothermal	X								X		X	
	Stenothermal												
	Metathermal											X	
	Eurythermal	X											
Turbid-ity	Eulichtophilous					X				X	X		
	Mesolichtophilous			X									
	Polylichtophilous	X				X			X				
	Oligolichtophilous					X							
Current	Limnobiontic												
	Limnophilous												
	Indifferent												
	Rheophilous			X							X	X	
	Rheobiontic						X	X					
General Habitat	Lake												
	Pond												
	River	X			X	X	X	X		X	X	X	
	Stream	X		X		X			X	X			
	Other												
Specific Habitat	Epibenthic	X											
	Embenthic												
	Epipelic												
	Episabulic												
	Epilithic	X		X			X				X	X	
	Epixylous												
	Epiphytic	X											
Emer-gence	Winter												
	Spring	X								X			
	Summer	X			X			X		X			
	Autumn												
Feeding	Predator												
	Herbivore												
	Omnivore												
	Scavenger												
Geographical Distribution	Region I												(12) and (16) Alaska
	Region II												
	Region III												
	Region IV												
	Region V												
	Region VI	X	X										
	Region VII		X										
	Region VIII	X	X		X	X	X	X				X	
	Region IX	X	X										
	Region X	X		X					X	X	X		
	Region XI												
	Region XII												

Ephemerella infrequens McDunnough

Parameters		12	133	173	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal	X			
	Oligothermal	X		X	
	Stenothermal				
	Metathermal				
	Eurythermal	X			
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous	X			
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River	X		X	
	Stream	X		X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic	X			
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring			X	
	Summer			X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI	X			
	Region VII				
	Region VIII	X	X		
	Region IX	X			
	Region X	X		X	
	Region XI				
	Region XII	X			

Ephemerella invaria (Walker)

Parameters		12	123	133	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral		X		
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal		X		
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous		X		
	Rheobiontic				
General Habitat	Lake	X			
	Pond				
	River	X			
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic		X		
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic		X		
	Epixylous				
	Epiphytic		X		
Emer-gence	Winter				
	Spring		X		
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X		X	
	Region II				
	Region III	X			
	Region IV	X			
	Region V	X			
	Region VI				
	Region VII	X			
	Region VIII				
	Region IX				
	Region X				
	Region XI	X	X		
	Region XII				

Ephemerella jacobi McDunnough

Parameters		References	Notes
		6	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII	X	

Ephemerella lacustris Allen and Edmunds

Parameters		12	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous	X		
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake	X	X	
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic	X	X	
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X	X	
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella lata Morgan

Parameters		9	159	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River	X		
	Stream		X	
	Other			
Specific Habitat	Epibenthic		X	
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I	X	X	
	Region II	X	X	
	Region III	X		
	Region IV	X		
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Ephemerella levis Day

Parameters		References 10	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Ephemerella lita Burks

Parameters		8	54	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X		
	Region IV	X		
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella lodi Mayo

Parameters		References	Notes
		11	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake	X	
	Pond	X	
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X	X	
	Region XI		
	Region XII	X	

Ephemerella longicornis Traver

Parameters		References		Notes
		9	118	
pH	Acidobiontic			
	Acidophilous			
	Neutral		X	
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II	X		
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella lutulenta Clemens

Parameters		References 11	60	149	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake	X	X	X	
	Pond				
	River	X			
	Stream	X			
	Other				
Specific Habitat	Epibenthic			X	
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic			X	
	Epixylous			X	
	Epiphytic			X	
Emer-gence	Winter				
	Spring		X	X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II	X			
	Region III				
	Region IV				
	Region V	X		X	
	Region VI				
	Region VII	X			
	Region VIII				
	Region IX				
	Region X				
	Region XI	X	X		
	Region XII				

Ephemerella maculata Traver

Parameters		12	16	24	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous			X	
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal			X	
	Stenothermal				
	Metathermal			X	
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River			X	
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic			X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI				
	Region VII				
	Region VIII			X	
	Region IX	X	X		
	Region X				
	Region XI				
	Region XII				

Ephemerella margarita Needham

Parameters		7	102	117	173	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal				X	
	Stenothermal					
	Metathermal				X	
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent			X		
	Rheophilous	X			X	
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River	X		X	X	
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic			X		
	Embenthic					
	Epipelic				X	
	Episabulic					
	Epilithic			X	X	
	Epixylous					
	Epiphytic			X		
Emer-gence	Winter					
	Spring					
	Summer	X				
	Autumn					
Feeding	Predator					
	Herbivore			X		
	Omnivore					
	Scavenger			X		
Geographical Distribution	Region I	X				
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI	X				
	Region VII					
	Region VIII	X	X		X	
	Region IX	X				
	Region X	X		X	X	
	Region XI	X				
	Region XII	X			X	

Ephemerella micheneri Traver

Parameters		10	20	173	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal	X			
	Oligothermal	X			
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River		X		
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic	X			
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				(10) Baja California
	Region III				
	Region IV				
	Region V				
	Region VI	X	X	X	
	Region VII				
	Region VIII	X		X	
	Region IX	X	X	X	
	Region X	X		X	
	Region XI				
	Region XII				

Ephemerella minimella McDunnough

Parameters		11	76	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous		X	
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal		X	
	Oligothermal		X	
	Stenothermal			
	Metathermal			
	Eurythermal		X	
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake	X		
	Pond			
	River	X		
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X	X	
	Region XII			

Ephemerella mollitia Seeman

Parameters		References 12	16	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX	X	X	
	Region X			
	Region XI			
	Region XII			

Ephemerella needhami McDunnough

Parameters		12	133	162	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral			X	
	Alkaliphilous			X	
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic			X	
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous			X	
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal			X	
	Stenothermal				
	Metathermal			X	
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous			X	
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River	X			
	Stream	X		X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic			X	
Emer-gence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X			
	Region II	X			
	Region III	X		X	
	Region IV	X	X		
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Ephemerella ora Burks

Parameters		References 12	References 54	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella pelosa Mayo

Parameters		9	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake	X		
	Pond			
	River	X		
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX	X		
	Region X	X	X	
	Region XI			
	Region XII			

Ephemerella prudentalis McDunnough

Parameters		References			Notes
		11	49	133	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake	X			
	Pond				
	River				
	Stream	X			
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X		X	
	Region II				
	Region III				
	Region IV	X			
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X	X		
	Region XII				

Ephemerella rama Allen

Parameters		References: 16	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter	X	
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Ephemerella rotunda Morgan

Parameters		References 12	48	118	119	154	33	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic				X			
O_2	Euoxyphilous							(119) >2.1 ppm @8° >4.4 ppm @20°
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal				X			
	Oligothermal				X			
	Stenothermal							
	Metathermal							
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic							
General Habitat	Lake	X						
	Pond							
	River	X					X	
	Stream	X	X	X	X	X		
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic				X			
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring					X	X	
	Summer							
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I	X						
	Region II	X				X		
	Region III	X			X			
	Region IV	X	X	X			X	
	Region V	X						
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI	X						
	Region XII							

Ephemerella septentrionalis McDunnough

Parameters		References 12	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I	X	
	Region II	X	
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Ephemerella sequoia Allen and Collins

Parameters		References: 15	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal	X	
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic	X	
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Ephemerella serrata Morgan

Parameters		References		Notes
		10	159	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal	X		
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I	X	X	
	Region II	X	X	
	Region III	X		
	Region IV	X		
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Ephemerella serratoides McDunnough

Parameters		References 10	References 51	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X	X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic	X		
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic	X	X	
Emer-gence	Winter			
	Spring	X	X	
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I	X		
	Region II	X		
	Region III	X		
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Ephemerella *simila* Allen and Edmunds

Parameters		References 12	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III	X	
	Region 1V		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region 1X		
	Region X		
	Region XI		
	Region XII		

Ephemerella simplex McDunnough

Parameters		8	123	133	172	185	191	Notes
pH	Acidobiontic							
	Acidophilous				X			
	Neutral		X					
	Alkaliphilous					X		
	Alkalibiontic							
	Indifferent							
Nutrient	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic						X	
O_2	Euoxyphilous		X		X			
	Mesoxyphilous							
	Oligoxyphilous							
Temperature	Euthermal							
	Mesothermal				X		X	
	Oligothermal		X		X	X		
	Stenothermal					X		
	Metathermal				X			
	Eurythermal							
Turbidity	Eulichtophilous							
	Mesolichtophilous						X	
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous					X	X	
	Rheobiontic							
General Habitat	Lake							
	Pond		X					
	River	X					X	
	Stream				X	X	X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic					X		
	Epixylous							
	Epiphytic					X	X	
Emergence	Winter				X	X		
	Spring				X	X	X	
	Summer	X	X					
	Autumn							
Feeding	Predator							
	Herbivore					X		
	Omnivore							
	Scavenger							
Geographical Distribution	Region I	X		X				
	Region II	X						
	Region III	X						
	Region IV	X			X	X	X	
	Region V			X				
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI	X	X					
	Region XII	X						

Ephemerella soquele Day

Parameters		References	Notes
		7	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X	X	
	Region XI		
	Region XII		

Ephemerella sordida McDunnough

	Parameters	References		Notes
		10	51	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I	X		
	Region II	X		
	Region III	X	X	
	Region IV	X	X	
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Ephemerella spiculosa Berner and Allen

Parameters		References		Notes
		10	51	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X	X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic	X		
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic	X		
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephemerella spinifera Needham

Parameters		9	78	117	173	188
pH	Acidobiontic					
	Acidophilous					
	Neutral					X
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal	X				X
	Oligothermal	X			X	X
	Stenothermal					
	Metathermal				X	X
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					X
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X				X
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic			X	X	
	Embenthic				X	
	Epipelic					
	Episabulic	X			X	X
	Epilithic					
	Epixylous					
	Epiphytic			X	X	
Emer-gence	Winter					
	Spring					
	Summer		X		X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X				X
	Region IX	X	X			
	Region X	X		X	X	
	Region XI					
	Region XII	X				

References

Notes

Ephemerella subvaria McDunnough

Parameters		58	59	162	169	170	195	Notes
pH	Acidobiontic							(58) pH 6 lower limit
	Acidophilous							(59) 30 day TL_{50} = 5.38
	Neutral	X	X	X				
	Alkaliphilous			X				
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic			X				
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic			X				
O_2	Euoxyphilous			X				
	Mesoxyphilous					X		
	Oligoxyphilous							
Tempera-ture	Euthermal							(169) TL_m^{96} = 21.5C
	Mesothermal			X				
	Oligothermal			X	X			
	Stenothermal							
	Metathermal			X				
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous			X				
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic							
General Habitat	Lake							
	Pond							
	River							
	Stream	X	X	X	X		X	
	Other							
Specific Habitat	Epibenthic			X				
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic			X				
	Epixylous							
	Epiphytic			X				
Emer-gence	Winter							
	Spring				X		X	
	Summer							
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV			X				
	Region V	X	X		X	X	X	
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI							
	Region XII							

Ephemerella temporalis McDunnough

Parameters		11	109	123	133	149	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral			X			
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutrient	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic		X				
Organics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous			X			
	Oligoxyphilous						
Temperature	Euthermal						
	Mesothermal			X			
	Oligothermal			X			
	Stenothermal						
	Metathermal			X			
	Eurythermal						
Turbidity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous		X				
	Indifferent						
	Rheophilous						
	Rheobiontic						
General Habitat	Lake		X	X		X	
	Pond			X			
	River			X			
	Stream						
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic					X	
	Epixylous					X	
	Epiphytic					X	
Emergence	Winter						
	Spring			X		X	
	Summer		X	X		X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I	X			X		
	Region II	X					
	Region III						
	Region IV	X					
	Region V	X			X	X	
	Region VI						
	Region VII	X					
	Region VIII						
	Region IX						
	Region X						
	Region XI	X		X			
	Region XII	X	X				

Ephemerella teresa Traver

Parameters		10	117	173	78	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative		X			
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal					
	Oligothermal	X		X		
	Stenothermal					
	Metathermal			X		
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic		X	X		
General Habitat	Lake					
	Pond					
	River	X	X			
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic		X			
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic	X	X	X		
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring					
	Summer					
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX	X			X	
	Region X	X	X	X		
	Region XI					
	Region XII					

Ephemerella tibialis McDunnough

Parameters		7	10	56	57	100	102	117	131	133	173	Notes
pH	Acidobiontic											
	Acidophilous											
	Neutral											
	Alkaliphilous							X				
	Alkalibiontic											
	Indifferent											
Nutrient	Eutrophic											
	Mesotrophic											
	Oligotrophic											
	Dystrophic											
Organics	Saprophilic											
	Facultative							X				
	Saproxenous											
	Saprophobic											
O_2	Euoxyphilous											
	Mesoxyphilous											
	Oligoxyphilous											
Temperature	Euthermal											(56) 15-20
	Mesothermal	X		X		X						
	Oligothermal		X								X	
	Stenothermal											
	Metathermal	X									X	
	Eurythermal											
Turbidity	Eulichtophilous											
	Mesolichtophilous	X			X							
	Polylichtophilous											
	Oligolichtophilous											
Current	Limnobiontic											
	Limnophilous											
	Indifferent											
	Rheophilous	X	X	X	X						X	
	Rheobiontic					X		X	X			
General Habitat	Lake											
	Pond											
	River			X				X	X			
	Stream	X	X		X	X	X	X			X	
	Other											
Specific Habitat	Epibenthic							X				
	Embenthic											
	Epipelic											
	Episabulic											
	Epilithic	X	X		X		X	X			X	
	Epixylous											
	Epiphytic		X					X			X	
Emergence	Winter											
	Spring										X	
	Summer		X						X		X	
	Autumn											
Feeding	Predator											
	Herbivore							X				
	Omnivore											
	Scavenger							X				
Geographical Distribution	Region I											
	Region II											
	Region III											
	Region IV											
	Region V											
	Region VI		X									
	Region VII											
	Region VIII		X			X	X		X			
	Region IX		X									
	Region X		X	X	X			X		X	X	
	Region XI											
	Region XII		X									

Ephemerella trilineata Berner

Parameters		References						Notes
		11	38	48	172	178	191	
pH	Acidobiontic							
	Acidophilous				X			
	Neutral							
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous						X	
	Saprophobic						X	
O_2	Euoxyphilous				X			
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal				X	X	X	
	Oligothermal				X	X	X	
	Stenothermal							
	Metathermal				X			
	Eurythermal					X		
Turbid-ity	Eulichtophilous						X	
	Mesolichtophilous						X	
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic						X	
General Habitat	Lake	X	X			X		(38) Spring
	Pond							(191) Spring
	River		X				X	
	Stream	X	X	X	X		X	
	Other		X				X	
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic							
	Epixylous							
	Epiphytic						X	
Emer-gence	Winter		X		X			
	Spring		X		X		X	
	Summer							
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV	X	X	X	X	X	X	
	Region V							
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI							
	Region XII							

Ephemerella tuberculata Morgan

Parameters		References			Notes
		9	159	118	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream		X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X			
	Region II	X	X		
	Region III	X			
	Region IV	X		X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Ephemerella velmae Allen and Edmunds

Parameters		References: 10	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X	X	
	Region XI		
	Region XII		

Ephemerella verruca Allen and Edmunds

Parameters		References		Notes
		12	173	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal		X	
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII			

Ephemerella walkeri Eaton

Parameters		References	Notes
		9	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I	X	
	Region II	X	
	Region III	X	
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Ephemerella wayah Traver

Parameters		References: 9	References: 118	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral		X	
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ephoron album (Say)

Parameters		23	65	87	92	100	133	138	151	158	159	173	191	Notes
pH	Acidobiontic													
	Acidophilous													
	Neutral													
	Alkaliphilous		X							X				
	Alkalibiontic													
	Indifferent													
Nutrient	Eutrophic													
	Mesotrophic									X				
	Oligotrophic		X											
	Dystrophic													
Organics	Saprophilic													
	Facultative													
	Saproxenous		X										X	
	Saprophobic	X											X	
O_2	Euoxyphilous		X											
	Mesoxyphilous													
	Oligoxyphilous													
Temperature	Euthermal													
	Mesothermal		X					X				X	X	
	Oligothermal							X						
	Stenothermal													
	Metathermal		X											
	Eurythermal							X						
Turbidity	Eulichtophilous	X												
	Mesolichtophilous		X										X	
	Polylichtophilous									X				
	Oligolichtophilous													
Current	Limnobiontic													
	Limnophilous													
	Indifferent													
	Rheophilous	X	X		X			X				X	X	
	Rheobiontic													
General Habitat	Lake													(92) canal
	Pond													
	River	X		X	X	X		X	X			X	X	
	Stream		X	X						X	X			
	Other				X									
Specific Habitat	Epibenthic													
	Embenthic			X	X	X						X	X	
	Epipelic			X	X	X						X		
	Episabulic				X	X								
	Epilithic	X												
	Epixylous													
	Epiphytic	X												
Emergence	Winter													
	Spring										X			
	Summer				X	X		X	X			X	X	
	Autumn													
Feeding	Predator													
	Herbivore													
	Omnivore													
	Scavenger													
Geographical Distribution	Region I													
	Region II										X			
	Region III			X										
	Region IV													
	Region V	X					X		X					
	Region VI								X					
	Region VII		X						X				X	
	Region VIII				X	X	X		X					
	Region IX								X					
	Region X								X	X		X		
	Region XI			X										
	Region XII							X						

Ephoron leukon Williamson

Parameters		124	133	151	200	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal					
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic			X		
General Habitat	Lake					
	Pond					
	River	X		X	X	
	Stream			X		
	Other					
Specific Habitat	Epibenthic					
	Embenthic	X				
	Epipelic	X				
	Episabulic					
	Epilithic	X		X		
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring					
	Summer	X		X	X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I		X	X		
	Region II			X	X	
	Region III		X	X		
	Region IV			X		
	Region V		X	X		
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI	X	X			
	Region XII					

Habrophlebia vibrans Needham

Parameters		References					Notes
		48	133	168	33	191	
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic					X	
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal					X	
	Oligothermal					X	
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous					X	
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic					X	
General Habitat	Lake						
	Pond						
	River				X	X	
	Stream			X		X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic					X	
	Epixylous						
	Epiphytic					X	
Emer-gence	Winter						
	Spring				X	X	
	Summer			X		X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II		X	X			
	Region III					X	
	Region IV	X			X	X	
	Region V						
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII						

Habrophlebiodes americana (Banks)

Parameters		133	27	55	123	164	191	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral				X			
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic					X		
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic						X	
O_2	Euoxyphilous				X			
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal							
	Oligothermal				X		X	
	Stenothermal							
	Metathermal							
	Eurythermal							
Turbid-ity	Eulichtophilous						X	
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent			X				
	Rheophilous				X		X	
	Rheobiontic							
General Habitat	Lake							
	Pond			X				
	River							
	Stream				X	X	X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic				X		X	
	Epixylous					X		
	Epiphytic							
Emer-gence	Winter							
	Spring			X		X		
	Summer				X	X	X	
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I	X						
	Region II		X	X		X		
	Region III						X	
	Region IV							
	Region V							
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI	X			X			
	Region XII							

Habrophlebiodes brunneipennis Berner

Parameters		38	48	191	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous			X	
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic			X	
General Habitat	Lake				
	Pond				(48) spring
	River			X	
	Stream	X	X	X	
	Other		X		
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic			X	
Emer-gence	Winter	X			
	Spring	X		X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Hagenulus rangelae Peters

Parameters		References 190	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(190) Puerto Rico
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Heptagenia aphrodite McDunnough

Parameters		References 118	133	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X		
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Heptagenia criddlei McDunnough

Parameters		References		Notes
		117	173	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous	X		
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative	X		
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal		X	
	Stenothermal			
	Metathermal		X	
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous		X	
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic	X		
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X	X	
	Epixylous			
	Epiphytic	X		
Emer-gence	Winter			
	Spring		X	
	Summer		X	
	Autumn		X	
Feeding	Predator			
	Herbivore	X		
	Omnivore			
	Scavenger	X		
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII			

Heptagenia diabasia Burks

Parameters		53	133	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X		
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I		X	
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII	X		
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Heptagenia elegantula (Eaton)

Parameters		86	98	100	173	33	83	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal			X	X			
	Oligothermal							
	Stenothermal							
	Metathermal							
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous		X		X			
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic							
General Habitat	Lake							
	Pond							
	River	X	X	X	X			
	Stream	X		X	X		X	
	Other							
Specific Habitat	Epibenthic		X		X			
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic		X		X			
	Epixylous				X			
	Epiphytic				X			
Emer-gence	Winter							
	Spring							
	Summer			X	X			
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V	X						
	Region VI							
	Region VII	X						
	Region VIII		X	X		X	X	
	Region IX							
	Region X				X			
	Region XI							
	Region XII	X						

Heptagenia flavescens (Walsh)

Parameters		32	42	48	86	192	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic					X	
	Mesotrophic					X	
	Oligotrophic						
	Dystrophic					X	
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous					X	
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous					X	
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal					X	
	Oligothermal						
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous					X	
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous					X	
	Rheobiontic					X	
General Habitat	Lake						
	Pond						
	River		X		X	X	
	Stream			X		X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic					X	
	Epixylous					X	
	Epiphytic						
Emer-gence	Winter						
	Spring		X		X	X	
	Summer					X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger					X	
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV		X	X	X	X	
	Region V	X			X	X	
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII						

Heptagenia hebe McDunnough

Parameters		123	133	165	159	192	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral	X					
	Alkaliphilous	X					
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic					X	
	Mesotrophic					X	
	Oligotrophic					X	
	Dystrophic					X	
Organ-ics	Saprophilic						
	Facultative					X	
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous	X				X	
	Mesoxyphilous	X					
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal	X				X	
	Oligothermal	X					
	Stenothermal						
	Metathermal	X					
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous					X	
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic				X	X	
General Habitat	Lake	X		X			
	Pond						
	River					X	
	Stream	X			X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic					X	
	Epixylous					X	
	Epiphytic						
Emer-gence	Winter						
	Spring					X	
	Summer	X				X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger					X	
Geographical Distribution	Region I		X				
	Region II				X		
	Region III						
	Region IV						
	Region V		X			X	
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI	X					
	Region XII			X			

Heptagenia juno McDunnough

Parameters		References		Notes
		118	133	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X		
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Heptagenia lucidipennis (Clemens)

Parameters		149	60	192	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic			X	
	Mesotrophic				
	Oligotrophic				
	Dystrophic			X	
Organ-ics	Saprophilic				
	Facultative			X	
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous			X	
	Mesoxyphilous			X	
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal	X		X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous			X	
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous			X	
	Rheobiontic			X	
General Habitat	Lake	X	X		
	Pond				
	River			X	
	Stream			X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic	X			
	Epipelic				
	Episabulic				
	Epilithic	X		X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer	X	X	X	
	Autumn				
Feeding	Predator				
	Herbivore	X			
	Omnivore				
	Scavenger			X	
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V	X		X	
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI		X		
	Region XII				

Heptagenia maculipennis Walsh

Parameters		References																									Notes
		60																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutri-ent	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organ-ics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Tempera-ture	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbid-ity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake	X																									
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emer-gence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI	X																									
	Region XII																										

Heptagenia marginalis Banks

Parameters		References	Notes
		32	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer	X	
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III	X	
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Heptagenia _patoka_ Burks

Parameters		References																									Notes
		53																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V	X																									
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Heptagenia pulla (Clemens)

Parameters		123	133	165	60	192	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous	X					
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic					X	
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic					X	
O_2	Euoxyphilous	X				X	
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal					X	
	Oligothermal	X					
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous					X	
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic	X				X	
General Habitat	Lake			X	X	X	
	Pond						
	River					X	
	Stream	X					
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic			X	X	X	
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring	X			X	X	
	Summer	X			X	X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger					X	
Geographical Distribution	Region I						
	Region II		X				
	Region III						
	Region IV						
	Region V		X			X	
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI	X			X		
	Region XII			X			

Heptagenia simplicioides McDunnough

Parameters		References		Notes
		133	173	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII		X	

Heptagenia solitaria McDunnough

Parameters		102	117	133	173	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal					
	Oligothermal				X	
	Stenothermal					
	Metathermal				X	
	Eurythermal					
Turbidity	Eulichtophilous	X				
	Mesolichtophilous		X			
	Polylichtophilous	X				
	Oligolichtophilous	X				
Current	Limnobiontic					
	Limnophilous					
	Indifferent		X			
	Rheophilous				X	
	Rheobiontic	X				
General Habitat	Lake					
	Pond					
	River	X			X	
	Stream	X	X		X	
	Other					
Specific Habitat	Epibenthic		X			
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X		X	
	Epixylous					
	Epiphytic					
Emergence	Winter					
	Spring					
	Summer	X			X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X				
	Region IX					
	Region X		X		X	
	Region XI					
	Region XII				X	

Heptagenia thetis Traver

Parameters		References: 118	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral	X	
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous	X	
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Heterocloeon curiosum (McDunnough)

Parameters		40	153	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X		
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Hexagenia atrocaudata McDunnough

Parameters		69	133	151	162	182	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral				X		
	Alkaliphilous				X		
	Alkalibiontic						
	Indifferent						
Nutrient	Eutrophic						
	Mesotrophic						
	Oligotrophic				X		
	Dystrophic						
Organics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic				X		
O_2	Euoxyphilous				X		
	Mesoxyphilous						
	Oligoxyphilous						
Temperature	Euthermal						
	Mesothermal				X		
	Oligothermal			X	X	X	
	Stenothermal						
	Metathermal				X		
	Eurythermal						
Turbidity	Eulichtophilous					X	
	Mesolichtophilous				X		
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic					X	
General Habitat	Lake						
	Pond						
	River						
	Stream	X			X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic			X	X		
	Epipelic				X		
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emergence	Winter						
	Spring						
	Summer	X		X		X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II			X		X	
	Region III	X		X		X	
	Region IV			X	X		
	Region V		X	X		X	
	Region VI						
	Region VII			X		X	
	Region VIII						
	Region IX						
	Region X						
	Region XI			X		X	
	Region XII						

Hexagenia bilineata (Say)

Parameters		References													Notes
		23	47	48	60	72	77	110	111	113	148	151	182	191	
pH	Acidobiontic														
	Acidophilous														
	Neutral														
	Alkaliphilous						X								
	Alkalibiontic														
	Indifferent														
Nutri-ent	Eutrophic														
	Mesotrophic														
	Oligotrophic														
	Dystrophic														
Organ-ics	Saprophilic														
	Facultative														
	Saproxenous													X	
	Saprophobic	X								X				X	
O_2	Euoxyphilous						X			X					
	Mesoxyphilous														
	Oligoxyphilous														
Tempera-ture	Euthermal														
	Mesothermal						X							X	
	Oligothermal						X								
	Stenothermal														
	Metathermal						X								
	Eurythermal														
Turbid-ity	Eulichtophilous														
	Mesolichtophilous														
	Polylichtophilous														
	Oligolichtophilous	X											X	X	
Current	Limnobiontic														
	Limnophilous						X			X				X	
	Indifferent														
	Rheophilous														
	Rheobiontic														
General Habitat	Lake			X	X		X					X		X	
	Pond											X			
	River	X	X	X		X		X	X	X	X	X	X	X	
	Stream			X									X		
	Other														
Specific Habitat	Epibenthic														
	Embenthic						X				X			X	
	Epipelic				X		X	X		X	X			X	
	Episabulic							X			X				
	Epilithic	X													
	Epixylous														
	Epiphytic	X													
Emer-gence	Winter														
	Spring				X			X	X						
	Summer		X		X		X	X	X		X	X	X	X	
	Autumn														
Feeding	Predator														
	Herbivore														
	Omnivore														
	Scavenger							X							
Geographical Distribution	Region I														
	Region II														
	Region III											X	X	X	
	Region IV		X	X							X	X	X	X	
	Region V	X				X		X	X	X		X	X		
	Region VI						X					X	X		
	Region VII					X		X	X			X	X	X	
	Region VIII														
	Region IX														
	Region X														
	Region XI				X										
	Region XII														

Hexagenia limbata (Serville)

Parameters		References																										Notes
		28	65	66	72	77	100	106	109	113	115	116	133	149	151	155	177	182	121	70	123	128	165	166	159	196	191	
pH	Acidobiontic																											(65) pH 7.2-8.2
	Acidophilous																											
	Neutral																				X							
	Alkaliphilous		X	X		X														X				X				
	Alkalibiontic																											
	Indifferent																											
Nutrient	Eutrophic																											
	Mesotrophic																X											
	Oligotrophic		X																									
	Dystrophic			X					X																			
Organics	Saprophilic																											
	Facultative																											
	Saproxenous		X																							X	X	
	Saprophobic			X						X																	X	
O_2	Euoxyphilous		X	X		X				X		X					X									X		(106) 0.8ppt
	Mesoxyphilous																X				X							
	Oligoxyphilous																X											
Temperature	Euthermal																											
	Mesothermal		X	X		X					X						X	X	X		X						X	
	Oligothermal			X		X											X				X	X						
	Stenothermal																											
	Metathermal		X			X															X							
	Eurythermal			X													X											
Turbidity	Eulichtophilous																											
	Mesolichtophilous		X	X																							X	
	Polylichtophilous																											
	Oligolichtophilous																X											
Current	Limnobiontic																											
	Limnophilous					X			X																			
	Indifferent																	X				X						
	Rheophilous		X	X												X											X	
	Rheobiontic																											
General Habitat	Lake					X			X	X				X	X			X	X		X		X	X		X	X	
	Pond																X											
	River				X		X			X										X				X			X	
	Stream		X	X			X			X	X	X			X	X					X	X			X			
	Other																											
Specific Habitat	Epibenthic																	X	X									
	Embenthic					X	X																X	X	X	X	X	
	Epipelic					X	X			X				X				X	X				X	X		X	X	
	Episabulic																								X		X	
	Epilithic																											
	Epixylous																											
	Epiphytic																											
Emergence	Winter																											
	Spring									X				X	X		X	X			X	X			X		X	
	Summer					X	X		X	X				X	X		X	X		X	X		X	X				
	Autumn																											
Feeding	Predator																							X				
	Herbivore																							X	X			
	Omnivore																											
	Scavenger																											
Geographical Distribution	Region I														X			X										
	Region II														X			X							X			
	Region III														X			X		X								
	Region IV														X			X										
	Region V				X					X			X	X	X		X	X								X		
	Region VI	X				X							X		X	X		X										
	Region VII		X		X										X			X									X	
	Region VIII						X				X	X			X			X	X									
	Region IX														X				X									
	Region X														X			X	X									
	Region XI																	X			X	X				X		
	Region XII			X					X									X					X	X				

Hexagenia munda Eaton

Parameters		133	182	31	151	197	123	149	47	48	178	118	191	Notes
pH	Acidobiontic													
	Acidophilous													
	Neutral						X							
	Alkaliphilous						X							
	Alkalibiontic													
	Indifferent					X								
Nutrient	Eutrophic													
	Mesotrophic													
	Oligotrophic													
	Dystrophic													
Organics	Saprophilic													
	Facultative													
	Saproxenous												X	
	Saprophobic		X										X	
O_2	Euoxyphilous						X							
	Mesoxyphilous						X							
	Oligoxyphilous													
Temperature	Euthermal					X	X							
	Mesothermal					X	X				X		X	
	Oligothermal		X								X			
	Stenothermal													
	Metathermal													
	Eurythermal					X					X			
Turbidity	Eulichtophilous		X											
	Mesolichtophilous													
	Polylichtophilous												X	
	Oligolichtophilous													
Current	Limnobiontic													
	Limnophilous		X											
	Indifferent		X				X				X		X	
	Rheophilous						X							
	Rheobiontic													
General Habitat	Lake		X		X		X	X		X	X		X	(48) spring
	Pond		X							X			X	
	River		X		X				X	X		X	X	
	Stream		X		X		X			X			X	
	Other									X				
Specific Habitat	Epibenthic													
	Embenthic					X							X	
	Epipelic					X							X	
	Episabulic													
	Epilithic													
	Epixylous													
	Epiphytic													
Emergence	Winter													
	Spring		X		X								X	
	Summer		X		X	X	X	X	X			X	X	
	Autumn		X											
Feeding	Predator													
	Herbivore													
	Omnivore													
	Scavenger					X								
Geographical Distribution	Region I		X		X									
	Region II		X		X									
	Region III		X		X									
	Region IV	X	X	X	X	X			X	X	X	X	X	
	Region V	X	X		X			X						
	Region VI	X	X		X									
	Region VII		X		X									
	Region VIII													
	Region IX													
	Region X													
	Region XI		X				X							
	Region XII													

Hexagenia'rigida McDunnough

Parameters		References							Notes
		123	133	151	165	166	182	196	
pH	Acidobiontic								
	Acidophilous								
	Neutral	X							
	Alkaliphilous					X			
	Alkalibiontic								
	Indifferent								
Nutrient	Eutrophic								
	Mesotrophic								
	Oligotrophic								
	Dystrophic								
Organics	Saprophilic								
	Facultative								
	Saproxenous							X	
	Saprophobic								
O_2	Euoxyphilous							X	
	Mesoxyphilous	X							
	Oligoxyphilous								
Temperature	Euthermal								
	Mesothermal	X							
	Oligothermal	X							
	Stenothermal								
	Metathermal	X							
	Eurythermal								
Turbidity	Eulichtophilous								
	Mesolichtophilous								
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent								
	Rheophilous								
	Rheobiontic								
General Habitat	Lake	X		X	X	X	X	X	
	Pond								
	River						X		
	Stream						X		
	Other								
Specific Habitat	Epibenthic								
	Embenthic							X	
	Epipelic							X	
	Episabulic								
	Epilithic								
	Epixylous								
	Epiphytic								
Emergence	Winter								
	Spring						X		
	Summer	X		X		X	X		
	Autumn								
Feeding	Predator					X			
	Herbivore					X			
	Omnivore								
	Scavenger								
Geographical Distribution	Region I		X	X			X		
	Region II		X	X			X		
	Region III			X			X		
	Region IV		X	X					
	Region V		X	X			X	X	
	Region VI			X			X		
	Region VII			X					
	Region VIII								
	Region IX								
	Region X								
	Region XI	X					X	X	
	Region XII				X		X		

Homoeoneuria ammophila (Spieth)

Parameters		References		Notes
		96	180	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic		X	
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Homoeoneuria dolani Edmunds, Berner and Traver

Parameters		96	191	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous		X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic		X	
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X	X	
	Autumn	X		
Feeding	Predator		X	
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Ironodes lepidus Traver

Parameters		References 78	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Ironodes nitidus (Eaton)

Parameters		References: 139	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal	X		
	Stenothermal			
	Metathermal	X		
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X		
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring	X		
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII			

Isonychia bicolor (Walker)

Parameters		23	133	60	64	75	159	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic					X		
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic	X			X	X		
O_2	Euoxyphilous				X			
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal				X			
	Oligothermal				X			
	Stenothermal							
	Metathermal				X			
	Eurythermal							
Turbid-ity	Eulichtophilous	X						
	Mesolichtophilous							
	Polylichtophilous				X			
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous	X				X		
	Rheobiontic				X		X	
General Habitat	Lake							
	Pond							
	River	X		X				
	Stream				X	X	X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic				X			
	Epipelic							
	Episabulic							
	Epilithic	X			X	X		
	Epixylous							
	Epiphytic	X						
Emer-gence	Winter							
	Spring				X		X	
	Summer				X		X	
	Autumn							
Feeding	Predator							
	Herbivore				X			
	Omnivore					X		
	Scavenger							
Geographical Distribution	Region I							
	Region II				X		X	
	Region III					X		
	Region IV							
	Region V	X	X					
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI			X				
	Region XII							

Isonychia christina Trayer

Parameters		References																									Notes
		68																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III	X																									
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Isonychia fattigi Traver

Parameters		References	Notes
		48	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Isonychia notata Traver

Parameters		References: 118	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Isonychia pictipes Traver

Parameters		References		Notes
		48	191	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous		X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River		X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic		X	
Emer-gence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Isonychia rufa McDunnough

Parameters		References																									Notes
		86																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V	X																									
	Region VI																										
	Region VII																										
	Region VIII	X																									
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Isonychia sadleri Traver

Parameters		References: 162	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral	X	
	Alkaliphilous	X	
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic	X	
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic	X	
O_2	Euoxyphilous	X	
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal	X	
	Oligothermal	X	
	Stenothermal		
	Metathermal	X	
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous	X	
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Isonychia sicca (Walsh)

Parameters		References			Notes
		123	74	100	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous	X			
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous	X			
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal	X			
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic	X			
General Habitat	Lake				
	Pond				
	River		X	X	
	Stream	X		X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic			X	
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring		X		
	Summer	X	X		
	Autumn		X		
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI		X		
	Region VII				
	Region VIII			X	
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Isonychia tusculanensis Berner

Parameters		References	Notes
		39	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Isonychia velma Needham

Parameters		References: 78	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic	X	
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous	X	
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Lachlania dencyanna Koss

Parameters		References	Notes
		134	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal	X	
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous	X	
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic	X	
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous	X	
	Epiphytic	X	
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI	X	
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Lachlania powelli Edmunds

Parameters		References 90	96	98	100	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal	X	X			
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous	X		X		
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River	X		X	X	
	Stream					
	Other					
Specific Habitat	Epibenthic	X	X		X	
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X	X	X	
	Epixylous	X	X	X	X	
	Epiphytic					
Emergence	Winter					
	Spring					
	Summer	X	X			
	Autumn					
Feeding	Predator					(100) Filter
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X	X	X	X	
	Region IX					
	Region X					
	Region XI					
	Region XII					

Leptohyphes apache Allen

Parameters		References																									Notes
		14																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI	X																									
	Region VII																										
	Region VIII	X																									
	Region IX	X																									
	Region X																										
	Region XI																										
	Region XII																										

Leptohyphes baumanni Kilgore and Allen

Parameters		References	Notes
		20	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Leptohyphes dolani Allen

Parameters		References		Notes
		14	17	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI		X	
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Leptohyphes mirus Allen

Parameters		References																									Notes
		14																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX	X																									
	Region X																										
	Region XI																										
	Region XII																										

Leptohyphes phalarobranchus Kilgore and Allen

Parameters		20	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Leptohyphes quercus Kilgore and Allen

Parameters		References: 20	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Leptohyphes robacki Allen

Parameters		References: 14	References: 17	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X	X	
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Leptophlebia bradleyi Needham

Parameters		48	178	191	Notes
pH	Acidobiontic		X		
	Acidophilous		X		
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X		
	Oligothermal		X	X	
	Stenothermal				
	Metathermal				
	Eurythermal		X		
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous		X	X	
Current	Limnobiontic			X	
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake		X		
	Pond			X	
	River				
	Stream	X			
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter			X	
	Spring				
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Leptophlebia cupida (Say)

	Parameters	31	49	52	55	60	66	76	108	122	123	133	174	159	165	167	168	Notes
pH	Acidobiontic																	(52) 7.5-8.6
	Acidophilous																	(108) 9
	Neutral									X	X							(174) 5-8
	Alkaliphilous			X			X	X		X								
	Alkalibiontic																	
	Indifferent												X					
Nutri-ent	Eutrophic																	
	Mesotrophic			X														
	Oligotrophic			X														
	Dystrophic.						X			X								
Organ-ics	Saprophilic																	
	Facultative																	
	Saproxenous																	
	Saprophobic						X											
O_2	Euoxyphilous						X	X										
	Mesoxyphilous										X		X					
	Oligoxyphilous																	
Tempera-ture	Euthermal																	(52) 0-30
	Mesothermal			X			X	X			X		X					
	Oligothermal			X			X	X		X			X					
	Stenothermal																	
	Metathermal																	
	Eurythermal			X			X	X					X					
Turbid-ity	Eulichtophilous																	
	Mesolichtophilous						X											
	Polylichtophilous																	
	Oligolichtophilous																	
Current	Limnobiontic																	
	Limnophilous										X							
	Indifferent				X					X						X		
	Rheophilous						X	X										
	Rheobiontic																	
General Habitat	Lake					X									X	X		(122) Marsh
	Pond													X		X	X	
	River									X			X		X	X		
	Stream			X			X	X		X	X		X		X	X		
	Other									X								
Specific Habitat	Epibenthic																	
	Embenthic																	
	Epipelic															X		
	Episabulic			X														
	Epilithic			X												X		
	Epixylous																	
	Epiphytic																	
Emer-gence	Winter																	
	Spring	X	X			X	X	X		X	X			X				
	Summer		X				X	X		X	X						X	
	Autumn						X											
Feeding	Predator															X		
	Herbivore															X		
	Omnivore																	
	Scavenger																	
Geographical Distribution	Region I																	
	Region II				X									X			X	
	Region III																	
	Region IV	X																
	Region V											X	X					
	Region VI																	
	Region VII																	
	Region VIII																	
	Region IX																	
	Region X																	
	Region XI		X	X		X		X			X							
	Region XII						X			X					X	X		

Leptophlebia gravastella (Eaton)

Parameters		100	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Leptophlebia intermedia (Traver)

Parameters		References 48	172	191	Notes
pH	Acidobiontic				
	Acidophilous		X		
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X		
	Oligothermal		X	X	
	Stenothermal				
	Metathermal		X		
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous			X	
Current	Limnobiontic				
	Limnophilous				
	Indifferent			X	
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond			X	
	River			X	
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring			X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Leptophlebia nebulosa (Walker)

Parameters		References						Notes
		60	66	133	149	170	165	
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous		X					
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic		X					
Organ-ics	Saprophilic		X					
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous		X					
	Mesoxyphilous					X		
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal		X					
	Oligothermal		X					
	Stenothermal							
	Metathermal							
	Eurythermal		X					
Turbid-ity	Eulichtophilous							
	Mesolichtophilous		X					
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous				X			
	Indifferent							
	Rheophilous		X					
	Rheobiontic							
General Habitat	Lake				X		X	(60) Small pot holes
	Pond	X						
	River						X	
	Stream		X					
	Other	X						
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic	X			X			
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring	X			X			
	Summer							
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger				X			
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V			X	X	X		
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI	X						
	Region XII		X				X	

Litobranchia recurvata (Morgan)

Parameters		133	150	151	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal			X	
	Oligothermal		X	X	
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous		X	X	
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream				
	Other				
Specific Habitat	Epibenthic				
	Embenthic		X		
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring		X	X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I		X	X	
	Region II		X	X	
	Region III		X	X	
	Region IV		X	X	
	Region V	X	X	X	
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI		X		
	Region XII				

Metretopus borealis (Eaton)

Parameters		References	Notes
		93	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake	X	
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(175) Northern Europe
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII	X	

Neoephemera compressa Berner

Parameters		References		Notes
		46	48	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X		
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous	X		
	Epiphytic	X		
Emer-gence	Winter	X		
	Spring	X		
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Neoephemera purpurea (Traver)

Parameters		References: 46	118	191	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal			X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X			
	Rheobiontic			X	
General Habitat	Lake				
	Pond				
	River	X	X	X	
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer			X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Neoephemera youngi Berner

Parameters		42	46	48	172	191	199	Notes
pH	Acidobiontic							
	Acidophilous				X			
	Neutral						X	
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic					X		
O_2	Euoxyphilous				X			
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal						X	
	Mesothermal				X	X	X	
	Oligothermal				X		X	
	Stenothermal							
	Metathermal				X			
	Eurythermal						X	
Turbid-ity	Eulichtophilous							
	Mesolichtophilous					X		
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous						X	
	Rheobiontic					X		
General Habitat	Lake							
	Pond							
	River		X			X		
	Stream	X	X	X	X	X	X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic					X		
	Epilithic					X		
	Epixylous							
	Epiphytic					X	X	
Emer-gence	Winter				X			
	Spring	X			X	X	X	
	Summer							
	Autumn							
Feeding	Predator							
	Herbivore						X	
	Omnivore							
	Scavenger						X	
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV	X	X	X	X	X	X	
	Region V							
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI							
	Region XII							

Neohagenulus julio Traver

Parameters		189	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter	X	
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(189) Puerto Rico
	Region II		(190) Puerto Rico
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Neohagenulus luteolus Traver

Parameters		References 189	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(189) Puerto Rico
	Region II		(190) Puerto Rico
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Neohagenulus tinctus Traver

Parameters		References																									Notes
		189																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter	X																									
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										(189) Puerto Rico
	Region III																										(190) Puerto Rico
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Paracloeodes **abditus** Day

Parameters		References	Notes
		82	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri- ent	Eutrophic		
	Mesotrophic	X	
	Oligotrophic		
	Dystrophic		
Organ- ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous	X	
	Oligoxyphilous		
Tempera- ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid- ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer- gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Paracloeodes minutus (Daggy)

Parameters		References	Notes
		86	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Paracloeodes portoricensis (Traver)

Parameters		References	Notes
		189	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		(189) Puerto Rico
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Paraleptophlebia adoptiva (McDunnough)

Parameters		118	133	145	123	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral	X				
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous	X				
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal	X				
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River					
	Stream	X		X	X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic			X		
	Epixylous					
	Epiphytic					
Emergence	Winter					
	Spring			X	X	
	Summer					
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X				
	Region V		X	X		
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI				X	
	Region XII					

Paraleptephlebia altana Kilgore and Allen

Parameters		References 20	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		(20) Spring
	Pond		
	River		
	Stream		
	Other	X	
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Paraleptophlebia assimilis (Banks)

Parameters		References 33	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Paraleptophlebia **bicornuta** (McDunnough)

Parameters		References		Notes
		117	173	
pH	Acidobiontic			
	Acidophilous	X		
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic, Facultative	X		
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X		
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn		X	
Feeding	Predator			
	Herbivore	X		
	Omnivore			
	Scavenger	X		
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X	X	X	
	Region XI			
	Region XII		X	

Paraleptophlebia debilis (Walker)

Parameters		66	78	117	118	133	138	142	173	123	Notes
pH	Acidobiontic										
	Acidophilous										
	Neutral										
	Alkaliphilous	X		X						X	
	Alkalibiontic										
	Indifferent										
Nutri-ent	Eutrophic										
	Mesotrophic										
	Oligotrophic										
	Dystrophic	X									
Organ-ics	Saprophilic										
	Facultative										
	Saproxenous										
	Saprophobic	X									
O_2	Euoxyphilous	X								X	
	Mesoxyphilous										
	Oligoxyphilous										
Tempera-ture	Euthermal										
	Mesothermal	X					X				
	Oligothermal	X					X			X	
	Stenothermal										
	Metathermal										
	Eurythermal	X					X				
Turbid-ity	Eulichtophilous										
	Mesolichtophilous	X						X			
	Polylichtophilous										
	Oligolichtophilous										
Current	Limnobiontic										
	Limnophilous							X	X		
	Indifferent		X								
	Rheophilous	X							X	X	
	Rheobiontic			X							
General Habitat	Lake										
	Pond										
	River			X							
	Stream	X	X	X	X			X	X	X	
	Other										
Specific Habitat	Epibenthic		X								
	Embenthic										
	Epipelic										
	Episabulic										
	Epilithic			X					X	X	
	Epixylous										
	Epiphytic		X								
Emer-gence	Winter										
	Spring										
	Summer						X	X	X	X	
	Autumn						X		X		
Feeding	Predator										
	Herbivore										
	Omnivore										
	Scavenger										
Geographical Distribution	Region I										
	Region II										
	Region III										
	Region IV				X						
	Region V					X					
	Region VI										
	Region VII										
	Region VIII										
	Region IX		X								
	Region X			X			X	X	X		
	Region XI								X	X	
	Region XII	X					X				

Paraleptophlebia falcula Traver

	Parameters	References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Paraleptophlebia gregalis (Eaton)

Parameters		133	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Paraleptophlebia guttata (McDunnough)

Parameters		References 118	123	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous		X	
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal		X	
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X		
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Paraleptophlebia helena Day

Parameters		References 78	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal	X	
	Stenothermal	X	
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous	X	
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic	X	
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX	X	
	Region X		
	Region XI		
	Region XII		

Paraleptophlebia heteronea (McDunnough)

Parameters		158	173	183	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous	X		X	
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic	X			
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous			X	
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal			X	
	Oligothermal		X		
	Stenothermal				
	Metathermal		X		
	Eurythermal				
Turbidity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous	X			
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous			X	
	Rheobiontic		X		
General Habitat	Lake				
	Pond				
	River			X	
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic		X	X	
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring		X		
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X	X	X	X	
	Region XI				
	Region XII		X		

Paraleptophlebia _jeanae_ Berner

Parameters		References 45	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous	X	
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III	X	
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Paraleptophlebia memoralis (Eaton)

Parameters		20	133	173	100	102	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal						
	Oligothermal			X			
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous					X	
	Rheobiontic						
General Habitat	Lake						
	Pond						
	River	X		X			
	Stream	X		X	X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring					X	
	Summer			X			
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV						
	Region V						
	Region VI	X					
	Region VII						
	Region VIII	X			X	X	
	Region IX	X					
	Region X	X	X	X			
	Region XI						
	Region XII	X					

Paraleptophlebia moerens (McDunnough)

Parameters		References					Notes
		76	156	157	163	123	
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous	X		X		X	
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic						
O_2	Euoxyphilous	X		X		X	
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal	X			X		
	Oligothermal	X		X	X	X	
	Stenothermal						
	Metathermal			X	X		
	Eurythermal	X					
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous	X		X			
	Rheobiontic						
General Habitat	Lake						
	Pond						
	River						
	Stream	X	X	X	X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring	X					
	Summer					X	
	Autumn						
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV		X	X	X		
	Region V						
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI	X				X	
	Region XII						

Paraleptophlebia **mollis** (Eaton)

Parameters		References 76	133	123	168	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous	X		X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous	X				
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal	X				
	Oligothermal	X		X		
	Stenothermal					
	Metathermal					
	Eurythermal	X				
Turbid-ity	Eulichtophilous				X	
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X		X		
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River					
	Stream	X		X	X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring	X		X		
	Summer	X		X	X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I		X			
	Region II				X	
	Region III					
	Region IV					
	Region V		X			
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI	X		X		
	Region XII					

Paraleptophlebia packii (Needham)

Parameters		131	173	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River	X		
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X		
	Autumn		X	
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII	X	X	
	Region IX			
	Region X			
	Region XI			
	Region XII			

Paraleptophlebia praepedita (Eaton)

Parameters		References 133	162	123	159	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral		X			
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic		X			
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic		X			
O_2	Euoxyphilous		X	X		
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal		X			
	Oligothermal		X	X		
	Stenothermal					
	Metathermal		X			
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous		X			
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River					
	Stream		X	X		
	Other					
Specific Habitat	Epibenthic		X			
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X			
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring			X	X	
	Summer			X		
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II				X	
	Region III					
	Region IV		X			
	Region V	X				
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI			X		
	Region XII					

Paraleptophlebia quisquilia Day

Parameters		References																									Notes
		78																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutri-ent	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organ-ics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Tempera-ture	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbid-ity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emer-gence	Winter																										
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX	X																									
	Region X																										
	Region XI																										
	Region XII																										

Paraleptophlebia temporalis (McDunnough)

Parameters		References 142	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent	X	
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic	X	
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII		

Paraleptophlebia vaciva (Eaton)

Parameters		References																								Notes
		173																								
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River	X																								
	Stream	X																								
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer	X																								
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X	X																								
	Region XI																									
	Region XII																									

Paraleptophlebia volitans (McDunnough)

Parameters		References					Notes
		48	172	178	123	191	
pH	Acidobiontic			X			
	Acidophilous		X	X			
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic					X	
O_2	Euoxyphilous		X		X		
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal		X	X	X	X	
	Oligothermal		X	X			
	Stenothermal						
	Metathermal		X				
	Eurythermal			X			
Turbid-ity	Eulichtophilous					X	
	Mesolichtophilous					X	
	Polylichtophilous						
	Oligolichtophilous			X			
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic				X	X	
General Habitat	Lake			X			
	Pond						
	River					X	
	Stream	X	X		X	X	
	Other						
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic					X	
	Epixylous						
	Epiphytic						
Emer-gence	Winter		X				
	Spring		X			X	
	Summer		X		X		
	Autumn		X				
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV	X	X	X		X	
	Region V						
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI				X		
	Region XII						

Paraleptophlebia zayante Day

	Parameters	References																								Notes
		78																								
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream	X																								
	Other																									
Specific Habitat	Epibenthic	X																								
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic	X																								
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn	X																								
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX	X																								
	Region X																									
	Region XI																									
	Region XII																									

Parameletus columbiae McDunnough

Parameters		95	117	173	181	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal	X				
	Oligothermal	X				
	Stenothermal					
	Metathermal					
	Eurythermal	X				
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent		X	X		
	Rheophilous	X				
	Rheobiontic					
General Habitat	Lake	X		X	X	
	Pond	X		X		
	River		X	X		
	Stream			X		
	Other					
Specific Habitat	Epibenthic		X			
	Embenthic					
	Epipelic		X			
	Episabulic					
	Epilithic		X			
	Epixylous		X			
	Epiphytic	X		X		
Emergence	Winter					
	Spring	X		X		
	Summer	X		X	X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					(133) Alaska
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII			X	X	
	Region IX					
	Region X		X	X		
	Region XI			X		
	Region XII					

Parameletus croesus (McDunnough)

Parameters		153	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Parameletus midas (McDunnough)

Parameters		References	Notes
		153	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Pentagenia vittigera (Walsh)

Parameters		48	73	113	151	191	Notes
pH	Acidobiontic						
	Acidophilous						
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous						
	Saprophobic					X	
O_2	Euoxyphilous						
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal					X	
	Oligothermal						
	Stenothermal						
	Metathermal						
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous						
	Oligolichtophilous					X	
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous				X		
	Rheobiontic			X			
General Habitat	Lake						
	Pond						
	River	X	X	X	X	X	
	Stream						
	Other						
Specific Habitat	Epibenthic						
	Embenthic				X	X	
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emer-gence	Winter						
	Spring			X			
	Summer			X	X	X	
	Autumn			X			
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV	X		X	X		
	Region V		X	X	X		
	Region VI				X		
	Region VII		X	X	X	X	
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII			X			

Potamanthus diaphanus Needham

Parameters		References		Notes
		151	168	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II	X	X	
	Region III			
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Potamanthus distinctus Traver

Parameters		References 151	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III	X	
	Region IV	X	
	Region V	X	
	Region VI	X	
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Potamanthus myops (Walsh)

Parameters		133	151	30	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River		X		
	Stream		X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring				
	Summer		X	X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III	X	X		
	Region IV	X	X		
	Region V	X	X		
	Region VI		X		
	Region VII		X	X	
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Potamanthus neglectus Traver

Parameters		133	151	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II		X	
	Region III		X	
	Region IV		X	
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Potamanthus rufous Argo

Parameters		References 24	124	151	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream				
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring			X	
	Summer	X	X	X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II	X		X	
	Region III				
	Region IV			X	
	Region V			X	
	Region VI			X	
	Region VII			X	
	Region VIII				
	Region IX				
	Region X				
	Region XI		X		
	Region XII				

Potamanthus verticis (Say)

Parameters		References																									Notes
		151																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II	X																									
	Region III																										
	Region IV	X																									
	Region V	X																									
	Region VI																										
	Region VII	X																									
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Potamanthus walkeri Ide

Parameters		References 124	151	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X		
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III		X	
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII			

Pseudocloeon alachua Berner

Parameters		References	Notes
		37	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter	X	
	Spring	X	
	Summer	X	
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Pseudocloeon anoka Daggy

Parameters		References		Notes
		86	133	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Pseudocloeon bimaculatum Berner

Parameters		References: 38	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Pseudocloeon carolina (Banks)

Parameters		References							Notes
		118	123	156	157	162	163	35	
pH	Acidobiontic								
	Acidophilous								
	Neutral		X			X			
	Alkaliphilous				X	X			
	Alkalibiontic								
	Indifferent								
Nutri-ent	Eutrophic								
	Mesotrophic								
	Oligotrophic					X			
	Dystrophic								
Organ-ics	Saprophilic								
	Facultative								
	Saproxenous								
	Saprophobic					X			
O_2	Euoxyphilous		X		X	X			
	Mesoxyphilous								
	Oligoxyphilous								
Tempera-ture	Euthermal								
	Mesothermal					X	X		
	Oligothermal		X		X	X	X		
	Stenothermal								
	Metathermal				X	X	X		
	Eurythermal								
Turbid-ity	Eulichtophilous								
	Mesolichtophilous					X			
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent								
	Rheophilous				X	X			
	Rheobiontic		X						
General Habitat	Lake								
	Pond								
	River	X							
	Stream		X	X		X	X		
	Other								
Specific Habitat	Epibenthic		X						
	Embenthic								
	Epipelic								
	Episabulic								
	Epilithic		X						
	Epixylous								
	Epiphytic		X						
Emer-gence	Winter								
	Spring							X	
	Summer								
	Autumn								
Feeding	Predator								
	Herbivore								
	Omnivore								
	Scavenger								
Geographical Distribution	Region I								
	Region II								
	Region III								
	Region IV	X		X	X	X	X	X	
	Region V								
	Region VI								
	Region VII								
	Region VIII								
	Region IX								
	Region X								
	Region XI		X						
	Region XII								

Pseudocloeon chlorops (McDunnough)

Parameters		153	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Pseudocloeon dubium (Walsh)

Parameters		149	60	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake	X	X	
	Pond			
	River			
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Pseudocloeon elliotti Daggy

	Parameters	References	Notes
		86	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Pseudocloeon ida Daggy

Parameters		References	Notes
		86	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn	X	
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Pseudocloeon parvulum McDunnough

Parameters		References: 184	48	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous	X		
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous	X		
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal	X		
	Oligothermal			
	Stenothermal	X		
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Pseudocloeon punctiventris (McDunnough)

Parameters		48	153	191	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal			X	
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous			X	
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic			X	
General Habitat	Lake				
	Pond				
	River		X	X	
	Stream	X			
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic			X	
Emergence	Winter				
	Spring		X	X	
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X		X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI		X		
	Region XII				

Pseudocloeon turbidum McDunnough

Parameters		References	Notes
		173	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Pseudocloeon virile (McDunnough)

Parameters		References 153	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI	X	
	Region XII		

Rhithrogena fuscifrons **Traver**

Parameters		References: 118	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral	X	
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous	X	
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Rhithrogena futilis McDunnough

Parameters		References																									Notes
		173																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII	X																									
	Region IX																										
	Region X	X																									
	Region XI																										
	Region XII																										

Rhithrogena hageni Eaton

Parameters		References						Notes
		117	130	131	173	188	176	
pH	Acidobiontic							
	Acidophilous							
	Neutral					X		
	Alkaliphilous	X						
	Alkalibiontic							
	Indifferent							
Nutri- ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ- ics	Saprophilic							
	Facultative	X						
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous							
	Oligoxyphilous							
Tempera- ture	Euthermal							
	Mesothermal					X		
	Oligothermal				X	X	X	
	Stenothermal							
	Metathermal					X	X	
	Eurythermal							
Turbid- ity	Eulichtophilous						X	
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous	X				X	X	
	Rheobiontic		X	X	X			
General Habitat	Lake							
	Pond							
	River	X	X	X	X	X		
	Stream	X			X		X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic	X	X			X		
	Epixylous							
	Epiphytic							
Emer- gence	Winter							
	Spring				X		X	
	Summer			X	X		X	
	Autumn							
Feeding	Predator							
	Herbivore	X					X	
	Omnivore							
	Scavenger	X						
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V							
	Region VI							
	Region VII							
	Region VIII		X	X		X		
	Region IX							
	Region X	X			X			
	Region XI							
	Region XII						X	

Rhithrogena impersonata (McDunnough)

Parameters		References 133	192	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic		X	
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous		X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River			
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger		X	
Geographical Distribution	Region I	X		
	Region II			
	Region III			
	Region IV			
	Region V		X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Rhithrogena jejuna Eaton

Parameters		References: 192	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic	X	
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic	X	
O_2	Euoxyphilous	X	
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal	X	
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous	X	
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic	X	
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger	X	
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Rhithrogena morrisoni (Banks)

Parameters		144	173	35	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal				
	Oligothermal		X		
	Stenothermal				
	Metathermal		X		
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous		X		
	Rheobiontic	X			
General Habitat	Lake				
	Pond				
	River		X		
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic	X			
	Epixylous				
	Epiphytic				
Emergence	Winter	X			
	Spring	X	X		
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX		X	X	
	Region X	X	X		
	Region XI				
	Region XII				

Rhithrogena pellucida Daggy

Parameters		References: 86	192	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic		X	
	Dystrophic		X	
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic		X	
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous		X	
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous	X		
	Rheobiontic		X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X		
	Summer	X	X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger		X	
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Rhithrogena robusta **Dodds**

Parameters		References 83	102	117	173	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous	X				
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal					
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic		X	X	X	
General Habitat	Lake					
	Pond					
	River					
	Stream	X	X	X	X	
	Other					
Specific Habitat	Epibenthic	X		X	X	
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic	X		X	X	
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring					
	Summer				X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII	X	X			
	Region IX					
	Region X			X	X	
	Region XI					
	Region XII					

Rhithrogena undulata (Banks)

Parameters		100	173	35	192	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri- ent	Eutrophic					
	Mesotrophic					
	Oligotrophic				X	
	Dystrophic					
Organ- ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic				X	
O_2	Euoxyphilous				X	
	Mesoxyphilous					
	Oligoxyphilous					
Tempera- ture	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid- ity	Eulichtophilous					
	Mesolichtophilous				X	
	Polylichtophilous					
	Oligolichtophilous		X			
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X	X			
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X	X			
	Stream		X		X	
	Other					
Specific Habitat	Epibenthic	X				
	Embenthic					
	Epipelic		X			
	Episabulic					
	Epilithic	X	X		X	
	Epixylous					
	Epiphytic					
Emer- gence	Winter					
	Spring		X	X	X	
	Summer	X	X			
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger				X	
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV					
	Region V				X	
	Region VI			X		
	Region VII					
	Region VIII	X				
	Region IX					
	Region X		X			
	Region XI					
	Region XII					

Siphlonisca *aerodromia* Needham

Parameters		References																									Notes
		61																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal	X																									
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond	X																									
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II	X																									
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Siphlonurus alternatus (Say)

Parameters		References 66	123	133	168	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous	X	X			
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic	X				
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic	X				
O_2	Euoxyphilous	X	X			
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal	X				
	Oligothermal	X	X			
	Stenothermal					
	Metathermal					
	Eurythermal	X				
Turbid-ity	Eulichtophilous					
	Mesolichtophilous	X				
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic					
General Habitat	Lake					
	Pond				X	
	River					
	Stream	X	X			
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring		X		X	
	Summer		X		X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II				X	
	Region III					
	Region IV					
	Region V			X		
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI		X	X		
	Region XII	X				

Siphlonurus _columbianus_ McDunnough

Parameters		173	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic	X	
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X	X	
	Region XI		
	Region XII	X	

References

Siphlonurus luridipennis (Burmeister)

Parameters		References 32	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II	X	
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Siphlonurus mirus Eaton

Parameters		31	61	133	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal		X		
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond		X		
	River		X		
	Stream				
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring	X	X		
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I			X	
	Region II		X		
	Region III				
	Region IV	X			
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Siphlonurus occidentalis Eaton

Parameters		61	83	84	85	98	100	101	102	117	133	173	Notes
pH	Acidobiontic												
	Acidophilous												
	Neutral												
	Alkaliphilous									X			
	Alkalibiontic												
	Indifferent												
Nutri- ent	Eutrophic												
	Mesotrophic												
	Oligotrophic												
	Dystrophic												
Organ- ics	Saprophilic												
	Facultative												
	Saproxenous												
	Saprophobic												
O_2	Euoxyphilous												(85) 5.9 %
	Mesoxyphilous												
	Oligoxyphilous												
Tempera- ture	Euthermal												
	Mesothermal												
	Oligothermal											X	
	Stenothermal												
	Metathermal											X	
	Eurythermal												
Turbid- ity	Eulichtophilous												
	Mesolichtophilous												
	Polylichtophilous												
	Oligolichtophilous					X							
Current	Limnobiontic												
	Limnophilous			X									
	Indifferent												
	Rheophilous						X			X		X	
	Rheobiontic												
General Habitat	Lake		X	X	X			X				X	
	Pond		X	X				X	X			X	
	River					X	X		X			X	
	Stream					X	X	X	X	X		X	
	Other												
Specific Habitat	Epibenthic									X			
	Embenthic			X									
	Epipelic		X	X	X							X	
	Episabulic					X		X					
	Epilithic									X			
	Epixylous												
	Epiphytic							X	X	X		X	
Emer- gence	Winter												
	Spring	X										X	
	Summer	X							X			X	
	Autumn											X	
Feeding	Predator							X					
	Herbivore												
	Omnivore							X				X	
	Scavenger							X				X	
Geographical Distribution	Region I												
	Region II												
	Region III												
	Region IV												
	Region V												
	Region VI										X		
	Region VII												
	Region VIII	X	X	X	X	X	X	X	X				
	Region IX												
	Region X									X	X	X	
	Region XI												
	Region XII												

Siphlonurus phyllis McDunnough

Parameters		References 153	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII	X	

Siphlonurus quebecensis (Provancher)

Parameters		123	133	61	Notes
pH	*Acidobiontic*				
	Acidophilous				
	Neutral	X			
	Alkaliphilous	X			
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous	X			
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal	X			
	Oligothermal	X			
	Stenothermal				
	Metathermal	X			
	Eurythermal				
Turbid-ity	Eulichtophilous			X	
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake	X			(61) Spring
	Pond			X	
	River				
	Stream	X			
	Other			X	
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic			X	
Emer-gence	Winter				
	Spring	X		X	
	Summer	X			
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I		X		
	Region II			X	
	Region III				
	Region IV				
	Region V		X		
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Siphlonurus rapidus McDunnough

Parameters		References		Notes
		133	149	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake		X	
	Pond		X	
	River			
	Stream		X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Siphlonurus typicus (Eaton)

Parameters		133	153	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI		X	
	Region XII			

Siphloplecton basale (Walker)

Parameters		References						Notes
		123	133	149	165	60	61	
pH	Acidobiontic							
	Acidophilous							
	Neutral	X						
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous	X						
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal	X						
	Oligothermal	X						
	Stenothermal							
	Metathermal	X						
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic							
General Habitat	Lake	X		X	X	X	X	(60) In puddle
	Pond							
	River	X			X			
	Stream							
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic							
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring	X		X		X		
	Summer	X						
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V		X	X			X	
	Region VI							
	Region VII							
	Region VIII							
	Region IX							
	Region X							
	Region XI	X				X		
	Region XII				X			

Siphloplecton costalense Spieth

Parameters		References	Notes
		181	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III	X	
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Siphloplecton interlineatum (Walsh)

Parameters		References	Notes
		86	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Siphloplecton speciosum Traver

Parameters		48	172	191	Notes
pH	Acidobiontic				
	Acidophilous		X		
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic			X	
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X		
	Oligothermal		X	X	
	Stenothermal				
	Metathermal		X		
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous			X	
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic			X	
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River			X	
	Stream	X	X	X	
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic			X	
Emer-gence	Winter		X		
	Spring		X	X	
	Summer				
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Spinadis wallacei Edmunds and Jensen

Parameters		References		Notes
		105	192	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic		X	
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous		X	
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous		X	
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X	X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous	X		
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X		
	Autumn			
Feeding	Predator	X	X	
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X		
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Stenacrop candidum (Traver)

Parameters		References																									Notes
		2																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic	X																									
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal	X																									
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous	X																									
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other	X																									
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III	X																									
	Region IV	X																									
	Region V	X																									
	Region VI																										
	Region VII	X																									
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII	X																									

Stenacron carolina (Banks)

Parameters		References			Notes
		2	118	33	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutrient	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Temperature	Euthermal				
	Mesothermal				
	Oligothermal	X			
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbidity	Eulichtophilous	X			
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic	X			
General Habitat	Lake				
	Pond				
	River		X	X	
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emergence	Winter				
	Spring	X		X	
	Summer	X			
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X			
	Region II	X			
	Region III	X			
	Region IV	X	X	X	
	Region V				
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Stenacron floridense (Lewis)

Parameters		References		Notes
		2	191	
pH	Acidobiontic			
	Acidophilous	X		
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic	X	X	
O_2	Euoxyphilous	X		
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous		X	
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X	X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic	X		
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X	X	
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV	X	X	
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Stenacron gildersleevei (Traver)

Parameters		2	133	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal	X		
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			(2) Spring
	Pond			
	River			
	Stream	X		
	Other	X		
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer	X		
	Autumn	X		
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II	X		
	Region III	X		
	Region IV	X		
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Stenacron interpunctatum (Say)

Parameters		References																			Notes
		2	48	108	133	114	149	163	172	165	63	159	168	75	76	109	123	65	32	192	
pH	Acidobiontic																				(108) 9
	Acidophilous								X												(65) 7.2-8.2
	Neutral																X				
	Alkaliphilous	X															X	X			
	Alkalibiontic														X						
	Indifferent	X																			
Nutri-ent	Eutrophic																			X	
	Mesotrophic																			X	
	Oligotrophic																	X			
	Dystrophic															X					
Organ-ics	Saprophilic																				
	Facultative	X																		X	
	Saproxenous																	X			
	Saprophobic	X												X							
O_2	Euoxyphilous								X						X		X	X			
	Mesoxyphilous																X			X	
	Oligoxyphilous																				
Tempera-ture	Euthermal																				
	Mesothermal							X	X						X		X	X		X	
	Oligothermal							X	X						X		X				
	Stenothermal																				
	Metathermal							X	X								X	X			
	Eurythermal														X						
Turbid-ity	Eulichtophilous																				
	Mesolichtophilous																	X			
	Polylichtophilous																			X	
	Oligolichtophilous																				
Current	Limnobiontic																				
	Limnophilous	X																			
	Indifferent															X				X	
	Rheophilous											X		X	X			X			
	Rheobiontic																				
General Habitat	Lake	X				X	X			X	X					X	X				
	Pond																			X	
	River	X	X										X				X			X	
	Stream	X	X					X	X			X		X	X		X	X		X	
	Other																				
Specific Habitat	Epibenthic																				
	Embenthic																				
	Epipelic																				
	Episabulic					X															
	Epilithic	X					X			X		X		X		X				X	
	Epixylous																			X	
	Epiphytic																				
Emer-gence	Winter	X							X											X	
	Spring	X				X	X		X			X			X		X			X	
	Summer						X		X			X				X	X		X		
	Autumn								X												
Feeding	Predator																				
	Herbivore													X							
	Omnivore																				
	Scavenger																			X	
Geographical Distribution	Region I	X			X														X		
	Region II	X			X						X	X	X								
	Region III	X												X							
	Region IV	X	X			X		X	X											X	
	Region V	X			X		X													X	
	Region VI	X			X																
	Region VII	X			X													X			
	Region VIII																				
	Region IX																				
	Region X										X										
	Region XI	X			X										X		X				
	Region XII	X								X						X					

Stenacron minnetonka (Daggy)

Parameters		References			Notes
		2	86	133	
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X			
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River	X			
	Stream	X			
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring	X	X		
	Summer				
	Autumn	X			
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV	X			
	Region V	X	X	X	
	Region VI				
	Region VII	X			
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Stenacron pallidum (Traver)

	Parameters	References	Notes
		2	
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous	X	
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative	X	
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous	X	
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River		
	Stream	X	
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring	X	
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III	X	
	Region IV	X	
	Region V		
	Region VI		
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Stenonema *annexum* Traver

Parameters		References																									Notes
		2																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic	X																									
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III	X																									
	Region IV	X																									
	Region V	X																									
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Stenonema ares Burks

Parameters		2	65	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous	X	X	
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic		X	
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous		X	
	Saprophobic			
O_2	Euoxyphilous		X	
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal		X	
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous		X	
	Polylichtophilous	X		
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic	X		
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic	X		
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring	X		
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII		X	
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Stenonema bipunctatum (McDunnough)

Parameters		2	86	133	192	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic				X	
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative				X	
	Saproxenous					
	Saprophobic	X				
O_2	Euoxyphilous					
	Mesoxyphilous				X	
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous				X	
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous		X			
	Rheobiontic	X			X	
General Habitat	Lake					
	Pond					
	River	X	X		X	
	Stream	X				
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic				X	
	Epixylous				X	
	Epiphytic					
Emer-gence	Winter					
	Spring	X			X	
	Summer	X			X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger				X	
Geographical Distribution	Region I					
	Region II	X		X		
	Region III	X				
	Region IV					
	Region V	X	X		X	
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI	X				
	Region XII	X				

Stenonema carlsoni Lewis

	Parameters	References																									Notes
		2																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic	X																									
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal	X																									
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic	X																									
General Habitat	Lake																										
	Pond																										
	River																										
	Stream	X																									
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter	X																									
	Spring	X																									
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III	X																									
	Region IV	X																									
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Stenonema exiguum Traver

Parameters		References							Notes
		2	36	48	86	172	191	192	
pH	Acidobiontic								
	Acidophilous					X			
	Neutral								
	Alkaliphilous								
	Alkalibiontic								
	Indifferent								
Nutri-ent	Eutrophic								
	Mesotrophic	X						X	
	Oligotrophic							X	
	Dystrophic							X	
Organ-ics	Saprophilic								
	Facultative							X	
	Saproxenous						X		
	Saprophobic		X				X		
O_2	Euoxyphilous					X			
	Mesoxyphilous							X	
	Oligoxyphilous								
Tempera-ture	Euthermal								
	Mesothermal					X	X	X	
	Oligothermal					X			
	Stenothermal								
	Metathermal					X			
	Eurythermal								
Turbid-ity	Eulichtophilous								
	Mesolichtophilous						X		
	Polylichtophilous							X	
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent								
	Rheophilous								
	Rheobiontic	X					X	X	
General Habitat	Lake								
	Pond								
	River	X			X		X	X	
	Stream			X	X	X	X	X	
	Other								
Specific Habitat	Epibenthic	X							
	Embenthic								
	Epipelic								
	Episabulic	X					X		
	Epilithic	X					X	X	
	Epixylous	X						X	
	Epiphytic								
Emer-gence	Winter					X	X		
	Spring					X	X	X	
	Summer	X				X	X		
	Autumn					X	X		
Feeding	Predator								
	Herbivore								
	Omnivore								
	Scavenger							X	
Geographical Distribution	Region I								
	Region II								
	Region III	X							
	Region IV	X	X	X		X	X	X	
	Region V	X			X			X	
	Region VI								
	Region VII								
	Region VIII								
	Region IX								
	Region X								
	Region XI				X				
	Region XII								

Stenonema femoratum (Say)

Parameters		2	65	133	149	191	192	Notes
pH	Acidobiontic							(65) 7.2-8.2
	Acidophilous							
	Neutral							
	Alkaliphilous	X	X					
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic		X				X	
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative	X						
	Saproxenous		X			X	X	
	Saprophobic							
O_2	Euoxyphilous		X					
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal		X			X	X	
	Oligothermal							
	Stenothermal							
	Metathermal		X					
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous		X			X		
	Polylichtophilous							
	Oligolichtophilous						X	
Current	Limnobiontic					X		
	Limnophilous							
	Indifferent							
	Rheophilous		X			X		
	Rheobiontic						X	
General Habitat	Lake				X	X		
	Pond							
	River							
	Stream	X	X			X	X	
	Other							
Specific Habitat	Epibenthic							
	Embenthic							
	Epipelic							
	Episabulic							
	Epilithic				X	X	X	
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring							
	Summer	X			X	X		
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II	X						
	Region III	X						
	Region IV	X						
	Region V	X			X			
	Region VI	X		X			X	
	Region VII	X	X			X		
	Region VIII							
	Region IX							
	Region X							
	Region XI							
	Region XII							

Stenonema fuscum (Clemens)

Parameters		References				Notes
		2	75	133	192	
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutrient	Eutrophic				X	
	Mesotrophic				X	
	Oligotrophic		X			
	Dystrophic					
Organics	Saprophilic					
	Facultative				X	
	Saproxenous					
	Saprophobic		X			
O_2	Euoxyphilous				X	
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous				X	
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X	X		X	
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X			X	
	Stream	X	X		X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic		X		X	
	Epixylous				X	
	Epiphytic					
Emergence	Winter					
	Spring	X			X	
	Summer	X				
	Autumn					
Feeding	Predator		X			
	Herbivore		X			
	Omnivore		X			
	Scavenger		X		X	
Geographical Distribution	Region I					
	Region II	X		X		
	Region III	X	X			
	Region IV					
	Region V	X		X	X	
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI	X				
	Region XII	X				

Stenonema integrum (McDunnough)

Parameters		1	2	86	192	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous	X				
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic				X	
	Oligotrophic					
	Dystrophic				X	
Organ-ics	Saprophilic					
	Facultative		X		X	
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous				X	
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal	X			X	
	Oligothermal	X				
	Stenothermal					
	Metathermal					
	Eurythermal	X				
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous				X	
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous					
	Rheobiontic	X			X	
General Habitat	Lake					
	Pond					
	River	X	X	X	X	
	Stream		X	X		
	Other					
Specific Habitat	Epibenthic	X				
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic				X	
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring		X			
	Summer		X	X		
	Autumn		X			
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger				X	
Geographical Distribution	Region I		X			
	Region II					
	Region III		X			
	Region IV		X		X	
	Region V		X	X	X	
	Region VI		X			
	Region VII		X			
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Stenonema ithaca (Clemens and Leonard)

Parameters		References 2	133	123	63	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous			X		
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous			X		
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal					
	Oligothermal			X		
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River	X				
	Stream	X		X		
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring	X			X	
	Summer			X		
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I		X			
	Region II	X			X	
	Region III	X				
	Region IV					
	Region V					
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI			X		
	Region XII					

Stenonema lepton Burks

Parameters		References 2	53	133	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous				
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic				
O_2	Euoxyphilous				
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal				
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous				
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River	X			
	Stream				
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic				
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring	X	X		
	Summer		X		
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I				
	Region II				
	Region III				
	Region IV				
	Region V	X	X	X	
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI				
	Region XII				

Stenonema luteum (Clemens)

Parameters		References																									Notes
		2																									
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic	X																								
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent	X																								
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake	X																								
	Pond																									
	River	X																								
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring	X																								
	Summer	X																								
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V	X																								
	Region VI																									
	Region VII																									
	Region VIII	X																								
	Region IX																									
	Region X																									
	Region XI	X																								
	Region XII	X																								

Stenonema mediopunctatum (McDunnough)

Parameters		References		Notes
		2	192	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic		X	
	Mesotrophic		X	
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative		X	
	Saproxenous			
	Saprophobic	X		
O_2	Euoxyphilous			
	Mesoxyphilous		X	
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous		X	
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic	X	X	
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring		X	
	Summer	X		
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger		X	
Geographical Distribution	Region I			
	Region II	X		
	Region III			
	Region IV			
	Region V	X	X	
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X		
	Region XII	X		

Stenonema modestum (Banks)

Parameters		References		Notes
		2	32	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III	X	X	
	Region IV			
	Region V			
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Stenonema nepotellum (McDunnough)

Parameters		2	65	133	Notes
pH	Acidobiontic				(65) 7.2-8.2
	Acidophilous				
	Neutral				
	Alkaliphilous	X	X		
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic		X		
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative	X			
	Saproxenous		X		
	Saprophobic				
O_2	Euoxyphilous		X		
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal		X		
	Oligothermal				
	Stenothermal				
	Metathermal		X		
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous		X		
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X	X		
	Rheobiontic				
General Habitat	Lake				
	Pond				
	River				
	Stream	X	X		
	Other				
Specific Habitat	Epibenthic				
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic	X			
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring				
	Summer	X			
	Autumn	X			
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X			
	Region II	X			
	Region III	X			
	Region IV	X			
	Region V	X		X	
	Region VI	X			
	Region VII	X	X		
	Region VIII				
	Region IX				
	Region X				
	Region XI	X			
	Region XII				

Stenonema placitum (Banks)

Parameters		References																									Notes
		2																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring	X																									
	Summer	X																									
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I	X																									
	Region II	X																									
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI	X																									
	Region XII																										

Stenonema pudicum (Hagen)

Parameters		References																									Notes
		2	118																								
pH	Acidobiontic																										
	Acidophilous																										
	Neutral		X																								
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutri-ent	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organ-ics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic	X																									
O_2	Euoxyphilous		X																								
	Mesoxyphilous																										
	Oligoxyphilous																										
Tempera-ture	Euthermal																										
	Mesothermal		X																								
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbid-ity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X	X																								
	Stream	X	X																								
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emer-gence	Winter																										
	Spring	X	X																								
	Summer																										
	Autumn	X																									
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II	X																									
	Region III	X																									
	Region IV	X	X																								
	Region V	X																									
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										

Stenonema pulchellum (Walsh)

Parameters		References: 2	133	187	168	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral					
	Alkaliphilous	X				
	Alkalibiontic					
	Indifferent	X				
Nutrient	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organics	Saprophilic					
	Facultative	X				
	Saproxenous					
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Temperature	Euthermal					
	Mesothermal			X		
	Oligothermal			X		
	Stenothermal					
	Metathermal					
	Eurythermal			X		
Turbidity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River	X		X		
	Stream	X				
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic					
	Epilithic			X		
	Epixylous					
	Epiphytic					
Emergence	Winter	X				
	Spring	X				
	Summer	X			X	
	Autumn	X				
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II	X			X	
	Region III	X				
	Region IV	X				
	Region V	X		X		
	Region VI					
	Region VII	X				
	Region VIII					
	Region IX					
	Region X					
	Region XI	X	X			
	Region XII					

Stenonema quinquespinum Lewis

Parameters		References: 2	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous	X	
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous	X	
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring	X	
	Summer	X	
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV	X	
	Region V	X	
	Region VI		
	Region VII	X	
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Stenonema rubromaculatum (Clemens)

Parameters		2	133	123	Notes
pH	Acidobiontic				
	Acidophilous				
	Neutral				
	Alkaliphilous			X	
	Alkalibiontic				
	Indifferent				
Nutri-ent	Eutrophic				
	Mesotrophic				
	Oligotrophic				
	Dystrophic				
Organ-ics	Saprophilic				
	Facultative				
	Saproxenous				
	Saprophobic	X			
O_2	Euoxyphilous			X	
	Mesoxyphilous				
	Oligoxyphilous				
Tempera-ture	Euthermal				
	Mesothermal				
	Oligothermal			X	
	Stenothermal				
	Metathermal				
	Eurythermal				
Turbid-ity	Eulichtophilous				
	Mesolichtophilous				
	Polylichtophilous				
	Oligolichtophilous				
Current	Limnobiontic				
	Limnophilous				
	Indifferent				
	Rheophilous	X			
	Rheobiontic			X	
General Habitat	Lake				
	Pond				
	River				
	Stream	X		X	
	Other				
Specific Habitat	Epibenthic	X			
	Embenthic				
	Epipelic				
	Episabulic				
	Epilithic	X			
	Epixylous				
	Epiphytic				
Emer-gence	Winter				
	Spring			X	
	Summer			X	
	Autumn				
Feeding	Predator				
	Herbivore				
	Omnivore				
	Scavenger				
Geographical Distribution	Region I	X	X		
	Region II	X			
	Region III	X			
	Region IV				
	Region V	X	X		
	Region VI				
	Region VII				
	Region VIII				
	Region IX				
	Region X				
	Region XI	X		X	
	Region XII				

Stenonema rubrum (McDunnough)

Parameters		References				Notes
		2	58	133	192	
pH	Acidobiontic					(58) pH 5.5 lower limit
	Acidophilous	X				
	Neutral					
	Alkaliphilous		X			
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic				X	
	Dystrophic				X	
Organ-ics	Saprophilic					
	Facultative	X				
	Saproxenous				X	
	Saprophobic				X	
O_2	Euoxyphilous				X	
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous	X			X	
	Oligolichtophilous					
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous	X				
	Rheobiontic				X	
General Habitat	Lake					
	Pond					
	River	X			X	
	Stream	X	X		X	
	Other					
Specific Habitat	Epibenthic					
	Embenthic					
	Epipelic					
	Episabulic	X				
	Epilithic	X			X	
	Epixylous				X	
	Epiphytic					
Emer-gence	Winter					
	Spring	X			X	
	Summer	X				
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger				X	
Geographical Distribution	Region I			X		
	Region II	X				
	Region III	X				
	Region IV	X				
	Region V	X	X	X	X	
	Region VI					
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI	X				
	Region XII					

Stenonema smithae Traver

	Parameters	2	36	48	172	191	Notes
pH	Acidobiontic						
	Acidophilous	X			X		
	Neutral						
	Alkaliphilous						
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic	X					
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative	X				X	
	Saproxenous						
	Saprophobic		X			X	
O_2	Euoxyphilous				X		
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal	X			X	X	
	Oligothermal				X		
	Stenothermal						
	Metathermal				X		
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous					X	
	Polylichtophilous						
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent	X					
	Rheophilous					X	
	Rheobiontic					X	
General Habitat	Lake	X					
	Pond						
	River	X				X	
	Stream	X		X	X	X	
	Other						
Specific Habitat	Epibenthic	X					
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic	X				X	
	Epixylous						
	Epiphytic						
Emer-gence	Winter				X	X	
	Spring				X	X	
	Summer	X			X	X	
	Autumn	X			X	X	
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I	X					
	Region II						
	Region III						
	Region IV	X	X	X	X	X	
	Region V						
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII						

Stenonema terminatum (Walsh)

Parameters		1	2	89	165	32	192	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous	X						
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic						X	
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative		X					
	Saproxenous						X	
	Saprophobic							
O_2	Euoxyphilous							
	Mesoxyphilous						X	
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal	X					X	
	Oligothermal	X						
	Stenothermal							
	Metathermal							
	Eurythermal	X						
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous						X	
	Oligolichtophilous							
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous							
	Rheobiontic	X					X	
General Habitat	Lake				X			(89) Canal
	Pond							
	River	X	X					
	Stream		X					
	Other			X				
Specific Habitat	Epibenthic							
	Embenthic	X	X	X				
	Epipelic							
	Episabulic		X					
	Epilithic	X	X				X	
	Epixylous							
	Epiphytic			X				
Emer-gence	Winter							
	Spring		X			X	X	
	Summer		X					
	Autumn							
Feeding	Predator							
	Herbivore							
	Omnivore							
	Scavenger						X	
Geographical Distribution	Region I							
	Region II					X		
	Region III							
	Region IV		X					
	Region V		X			X		
	Region VI							
	Region VII		X					
	Region VIII		X	X				
	Region IX							
	Region X		X	X				
	Region XI		X					
	Region XII				X			

Stenonema *tripunctatum* (Banks)

Parameters		2	65	75	133	155	169	123	165	32	1	192	Notes
pH	Acidobiontic												
	Acidophilous												
	Neutral							X					
	Alkaliphilous	X	X					X					
	Alkalibiontic										X		
	Indifferent												
Nutrient	Eutrophic										X	X	
	Mesotrophic	X									X		
	Oligotrophic		X	X									
	Dystrophic												
Organics	Saprophilic												
	Facultative											X	
	Saproxenous		X										
	Saprophobic			X									
O_2	Euoxyphilous		X					X			X		
	Mesoxyphilous							X			X	X	
	Oligoxyphilous												
Temperature	Euthermal												(169) TL_m^{96} = 25C
	Mesothermal	X	X				X	X			X	X	
	Oligothermal						X	X			X		
	Stenothermal												
	Metathermal		X					X					
	Eurythermal										X		
Turbidity	Eulichtophilous												
	Mesolichtophilous		X										
	Polylichtophilous										X		
	Oligolichtophilous												
Current	Limnobiontic										X		
	Limnophilous												
	Indifferent												
	Rheophilous		X	X		X							
	Rheobiontic	X									X		
General Habitat	Lake							X	X			X	
	Pond												
	River	X										X	
	Stream	X	X	X		X		X			X		
	Other												
Specific Habitat	Epibenthic										X		
	Embenthic												
	Epipelic												
	Episabulic												
	Epilithic			X					X			X	
	Epixylous												
	Epiphytic												
Emergence	Winter	X											
	Spring	X						X				X	
	Summer	X						X				X	
	Autumn												
Feeding	Predator			X									
	Herbivore			X									
	Omnivore			X									
	Scavenger			X								X	
Geographical Distribution	Region I												
	Region II									X			
	Region III			X									
	Region IV	X											
	Region V	X			X					X		X	
	Region VI	X				X							
	Region VII	X	X										
	Region VIII												
	Region IX												
	Region X												
	Region XI	X						X					
	Region XII	X							X				

Stenonem*A* vicar*i*um (Walker)

Parameters		2	67	76	118	133	123	31	Notes
pH	Acidobiontic								
	Acidophilous								
	Neutral								
	Alkaliphilous	X		X			X		
	Alkalibiontic								
	Indifferent								
Nutri-ent	Eutrophic								
	Mesotrophic								
	Oligotrophic								
	Dystrophic								
Organ-ics	Saprophilic								
	Facultative								
	Saproxenous								
	Saprophobic	X							
O_2	Euoxyphilous			X			X		
	Mesoxyphilous								
	Oligoxyphilous								
Tempera-ture	Euthermal								
	Mesothermal			X					
	Oligothermal			X			X		
	Stenothermal								
	Metathermal								
	Eurythermal			X					
Turbid-ity	Eulichtophilous								
	Mesolichtophilous								
	Polylichtophilous								
	Oligolichtophilous								
Current	Limnobiontic								
	Limnophilous								
	Indifferent						X		
	Rheophilous			X					
	Rheobiontic	X							
General Habitat	Lake								
	Pond								
	River	X							
	Stream	X	X	X			X		
	Other								
Specific Habitat	Epibenthic								
	Embenthic								
	Epipelic								
	Episabulic								
	Epilithic						X		
	Epixylous								
	Epiphytic								
Emer-gence	Winter								
	Spring	X		X			X		
	Summer	X	X	X			X		
	Autumn		X						
Feeding	Predator								
	Herbivore								
	Omnivore								
	Scavenger								
Geographical Distribution	Region I	X				X			
	Region II	X							
	Region III	X	X						
	Region IV	X			X			X	
	Region V	X							
	Region VI								
	Region VII								
	Region VIII								
	Region IX								
	Region X								
	Region XI	X		X			X		
	Region XII	X							

Thraulodes brunneus Koss

Parameters		20	132	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River			
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX	X		
	Region X			
	Region XI			
	Region XII			

Thraulodes salinus Kilgore and Allen

Parameters		References																									Notes
		20																									
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X																									
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX	X																									
	Region X																										
	Region XI																										
	Region XII																										

Tortopus incertus (Traver)

Parameters		48	50	151	191	Notes
pH	Acidobiontic					
	Acidophilous					
	Neutral		X			
	Alkaliphilous					
	Alkalibiontic					
	Indifferent					
Nutri-ent	Eutrophic					
	Mesotrophic					
	Oligotrophic					
	Dystrophic					
Organ-ics	Saprophilic					
	Facultative					
	Saproxenous				X	
	Saprophobic					
O_2	Euoxyphilous					
	Mesoxyphilous					
	Oligoxyphilous					
Tempera-ture	Euthermal					
	Mesothermal				X	
	Oligothermal					
	Stenothermal					
	Metathermal					
	Eurythermal					
Turbid-ity	Eulichtophilous					
	Mesolichtophilous					
	Polylichtophilous					
	Oligolichtophilous		X		X	
Current	Limnobiontic					
	Limnophilous					
	Indifferent					
	Rheophilous				X	
	Rheobiontic					
General Habitat	Lake					
	Pond					
	River	X	X	X	X	
	Stream	X				
	Other					
Specific Habitat	Epibenthic					
	Embenthic		X	X	X	(50) Clay
	Epipelic					(151) Clay
	Episabulic					
	Epilithic					
	Epixylous					
	Epiphytic					
Emer-gence	Winter					
	Spring					
	Summer		X	X	X	
	Autumn					
Feeding	Predator					
	Herbivore					
	Omnivore					
	Scavenger					
Geographical Distribution	Region I					
	Region II					
	Region III					
	Region IV	X	X	X	X	
	Region V					
	Region VI		X	X		
	Region VII					
	Region VIII					
	Region IX					
	Region X					
	Region XI					
	Region XII					

Tortopus primus (McDunnough)

Parameters		References: 151	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII	X	
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Traverella albertana (McDunnough)

Parameters		20	21	88	98	100	173	Notes
pH	Acidobiontic							
	Acidophilous							
	Neutral							
	Alkaliphilous							
	Alkalibiontic							
	Indifferent							
Nutri-ent	Eutrophic							
	Mesotrophic							
	Oligotrophic							
	Dystrophic							
Organ-ics	Saprophilic							
	Facultative							
	Saproxenous							
	Saprophobic							
O_2	Euoxyphilous					X		
	Mesoxyphilous							
	Oligoxyphilous							
Tempera-ture	Euthermal							
	Mesothermal		X	X				
	Oligothermal							
	Stenothermal							
	Metathermal							
	Eurythermal							
Turbid-ity	Eulichtophilous							
	Mesolichtophilous							
	Polylichtophilous							
	Oligolichtophilous			X	X			
Current	Limnobiontic							
	Limnophilous							
	Indifferent							
	Rheophilous			X	X			
	Rheobiontic		X					
General Habitat	Lake							
	Pond							
	River	X	X		X	X	X	
	Stream							
	Other							
Specific Habitat	Epibenthic			X		X		
	Embenthic							
	Epipelic	X						
	Episabulic	X					X	
	Epilithic	X		X	X	X	X	
	Epixylous							
	Epiphytic							
Emer-gence	Winter							
	Spring							
	Summer			X		X	X	
	Autumn			X			X	
Feeding	Predator							(100) Filter feeding
	Herbivore							
	Omnivore							
	Scavenger							
Geographical Distribution	Region I							
	Region II							
	Region III							
	Region IV							
	Region V							
	Region VI							
	Region VII							
	Region VIII	X	X	X	X	X	X	
	Region IX	X	X					
	Region X	X	X				X	
	Region XI							
	Region XII	X	X				X	

Traverella castanea Kilgore and Allen

Parameters		References		Notes
		20	21	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal		X	
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous		X	
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X	X	
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic		X	
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX	X	X	
	Region X			
	Region XI			
	Region XII			

Traverella lewisi Allen

Parameters		References: 21	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V	X	
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Traverella presidiana (Traver)

Parameters		References 21	References 88	Notes
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutrient	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Temperature	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbidity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X		
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emergence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			(21) Nuevo Leon (21) Tamaulipas
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI			
	Region XII			

Tricorythodes albilineatus Berner

Parameters		38	48	172	184	191	Notes
pH	Acidobiontic						
	Acidophilous			X			
	Neutral						
	Alkaliphilous				X		
	Alkalibiontic						
	Indifferent						
Nutri-ent	Eutrophic						
	Mesotrophic						
	Oligotrophic						
	Dystrophic						
Organ-ics	Saprophilic						
	Facultative						
	Saproxenous					X	
	Saprophobic					X	
O_2	Euoxyphilous			X	X		
	Mesoxyphilous						
	Oligoxyphilous						
Tempera-ture	Euthermal						
	Mesothermal			X	X	X	
	Oligothermal			X			
	Stenothermal				X		
	Metathermal			X			
	Eurythermal						
Turbid-ity	Eulichtophilous						
	Mesolichtophilous						
	Polylichtophilous					X	
	Oligolichtophilous						
Current	Limnobiontic						
	Limnophilous						
	Indifferent						
	Rheophilous						
	Rheobiontic				X	X	
General Habitat	Lake						(38) Spring
	Pond						
	River	X			X	X	
	Stream	X	X	X		X	
	Other	X					
Specific Habitat	Epibenthic						
	Embenthic						
	Epipelic						
	Episabulic						
	Epilithic						
	Epixylous						
	Epiphytic						
Emer-gence	Winter	X		X			
	Spring	X		X		X	
	Summer	X		X		X	
	Autumn	X		X			
Feeding	Predator						
	Herbivore						
	Omnivore						
	Scavenger						
Geographical Distribution	Region I						
	Region II						
	Region III						
	Region IV	X	X	X	X	X	
	Region V						
	Region VI						
	Region VII						
	Region VIII						
	Region IX						
	Region X						
	Region XI						
	Region XII						

Tricorythodes allectus (Needham)

Parameters		References																									Notes
		60	133	149	168	159																					
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake	X		X																							
	Pond																										
	River				X																						
	Stream					X																					
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic					X																					
	Episabulic	X																									
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring					X																					
	Summer	X		X		X																					
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I				X																						
	Region II				X	X																					
	Region III																										
	Region IV																										
	Region V			X																							
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI	X	X																								
	Region XII																										

Tricorythodes atratus (McDunnough)

Parameters		References		Notes
		133	153	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River		X	
	Stream			
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer		X	
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V	X		
	Region VI			
	Region VII			
	Region VIII			
	Region IX			
	Region X			
	Region XI	X	X	
	Region XII			

Tricorythodes condylus Allen

Parameters		References																									Notes
		14	20																								
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutrient	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Temperature	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbidity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River	X	X																								
	Stream		X																								
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emergence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI		X																								
	Region VII																										
	Region VIII																										
	Region IX	X	X																								
	Region X																										
	Region XI																										
	Region XII																										

Tricorythodes _corpulentus_ Kilgore and Allen

Parameters		References: 20	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutri-ent	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organ-ics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Tempera-ture	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbid-ity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emer-gence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI	X	
	Region VII		
	Region VIII		
	Region IX		
	Region X		
	Region XI		
	Region XII		

Tricorythodes dimorphus Allen

Parameters		References		Notes
		20	14	
pH	Acidobiontic			
	Acidophilous			
	Neutral			
	Alkaliphilous			
	Alkalibiontic			
	Indifferent			
Nutri-ent	Eutrophic			
	Mesotrophic			
	Oligotrophic			
	Dystrophic			
Organ-ics	Saprophilic			
	Facultative			
	Saproxenous			
	Saprophobic			
O_2	Euoxyphilous			
	Mesoxyphilous			
	Oligoxyphilous			
Tempera-ture	Euthermal			
	Mesothermal			
	Oligothermal			
	Stenothermal			
	Metathermal			
	Eurythermal			
Turbid-ity	Eulichtophilous			
	Mesolichtophilous			
	Polylichtophilous			
	Oligolichtophilous			
Current	Limnobiontic			
	Limnophilous			
	Indifferent			
	Rheophilous			
	Rheobiontic			
General Habitat	Lake			
	Pond			
	River	X		
	Stream	X	X	
	Other			
Specific Habitat	Epibenthic			
	Embenthic			
	Epipelic			
	Episabulic			
	Epilithic			
	Epixylous			
	Epiphytic			
Emer-gence	Winter			
	Spring			
	Summer			
	Autumn			
Feeding	Predator			
	Herbivore			
	Omnivore			
	Scavenger			
Geographical Distribution	Region I			
	Region II			
	Region III			
	Region IV			
	Region V			
	Region VI	X	X	
	Region VII			
	Region VIII			
	Region IX	X	X	
	Region X			
	Region XI			
	Region XII			

Tricorythodes edmundsi Allen

Parameters		14	Notes
pH	Acidobiontic		
	Acidophilous		
	Neutral		
	Alkaliphilous		
	Alkalibiontic		
	Indifferent		
Nutrient	Eutrophic		
	Mesotrophic		
	Oligotrophic		
	Dystrophic		
Organics	Saprophilic		
	Facultative		
	Saproxenous		
	Saprophobic		
O_2	Euoxyphilous		
	Mesoxyphilous		
	Oligoxyphilous		
Temperature	Euthermal		
	Mesothermal		
	Oligothermal		
	Stenothermal		
	Metathermal		
	Eurythermal		
Turbidity	Eulichtophilous		
	Mesolichtophilous		
	Polylichtophilous		
	Oligolichtophilous		
Current	Limnobiontic		
	Limnophilous		
	Indifferent		
	Rheophilous		
	Rheobiontic		
General Habitat	Lake		
	Pond		
	River	X	
	Stream		
	Other		
Specific Habitat	Epibenthic		
	Embenthic		
	Epipelic		
	Episabulic		
	Epilithic		
	Epixylous		
	Epiphytic		
Emergence	Winter		
	Spring		
	Summer		
	Autumn		
Feeding	Predator		
	Herbivore		
	Omnivore		
	Scavenger		
Geographical Distribution	Region I		(14) Tamaulipas Prov Mexico
	Region II		
	Region III		
	Region IV		
	Region V		
	Region VI		
	Region VII		
	Region VIII	X	
	Region IX		
	Region X		
	Region XI		
	Region XII		

Tricorythodes minutus Traver

Parameters		References										Notes
		20	66	100	102	117	137	158	173	133	160	
pH	Acidobiontic											
	Acidophilous											
	Neutral											
	Alkaliphilous		X			X	X	X				
	Alkalibiontic										X	
	Indifferent											
Nutri-ent	Eutrophic											
	Mesotrophic						X	X				
	Oligotrophic											
	Dystrophic		X									
Organ-ics	Saprophilic											
	Facultative											
	Saproxenous											
	Saprophobic		X									
O_2	Euoxyphilous		X								X	
	Mesoxyphilous										X	
	Oligoxyphilous										X	
Tempera-ture	Euthermal											
	Mesothermal		X	X			X		X		X	
	Oligothermal		X				X					
	Stenothermal											
	Metathermal											
	Eurythermal		X				X					
Turbid-ity	Eulichtophilous											
	Mesolichtophilous		X				X					
	Polylichtophilous							X	X			
	Oligolichtophilous											
Current	Limnobiontic											
	Limnophilous											
	Indifferent			X								
	Rheophilous		X	X								
	Rheobiontic						X					
General Habitat	Lake											(173) Canals
	Pond											
	River	X		X		X			X		X	
	Stream	X	X	X	X	X	X	X				
	Other											
Specific Habitat	Epibenthic			X		X			X			
	Embenthic											
	Epipelic						X					
	Episabulic											
	Epilithic			X		X	X		X			
	Epixylous											
	Epiphytic			X	X	X			X			
Emer-gence	Winter											
	Spring											
	Summer			X					X			
	Autumn								X			
Feeding	Predator											
	Herbivore						X					
	Omnivore											
	Scavenger						X					
Geographical Distribution	Region I											
	Region II											
	Region III											
	Region IV											
	Region V									X		
	Region VI	X										
	Region VII											
	Region VIII	X		X	X		X					
	Region IX	X										
	Region X					X	X	X	X	X	X	
	Region XI											
	Region XII	X	X									

Parameters		References																									Notes
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Parameters		References																								Notes
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

	Parameters	References																									Notes
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Parameters		References																								Notes
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Parameters		References																									Notes
pH	Acidobiontic																									
	Acidophilous																									
	Neutral																									
	Alkaliphilous																									
	Alkalibiontic																									
	Indifferent																									
Nutrient	Eutrophic																									
	Mesotrophic																									
	Oligotrophic																									
	Dystrophic																									
Organics	Saprophilic																									
	Facultative																									
	Saproxenous																									
	Saprophobic																									
O_2	Euoxyphilous																									
	Mesoxyphilous																									
	Oligoxyphilous																									
Temperature	Euthermal																									
	Mesothermal																									
	Oligothermal																									
	Stenothermal																									
	Metathermal																									
	Eurythermal																									
Turbidity	Eulichtophilous																									
	Mesolichtophilous																									
	Polylichtophilous																									
	Oligolichtophilous																									
Current	Limnobiontic																									
	Limnophilous																									
	Indifferent																									
	Rheophilous																									
	Rheobiontic																									
General Habitat	Lake																									
	Pond																									
	River																									
	Stream																									
	Other																									
Specific Habitat	Epibenthic																									
	Embenthic																									
	Epipelic																									
	Episabulic																									
	Epilithic																									
	Epixylous																									
	Epiphytic																									
Emergence	Winter																									
	Spring																									
	Summer																									
	Autumn																									
Feeding	Predator																									
	Herbivore																									
	Omnivore																									
	Scavenger																									
Geographical Distribution	Region I																									
	Region II																									
	Region III																									
	Region IV																									
	Region V																									
	Region VI																									
	Region VII																									
	Region VIII																									
	Region IX																									
	Region X																									
	Region XI																									
	Region XII																									

Parameters		References																									Notes
pH	Acidobiontic																										
	Acidophilous																										
	Neutral																										
	Alkaliphilous																										
	Alkalibiontic																										
	Indifferent																										
Nutri-ent	Eutrophic																										
	Mesotrophic																										
	Oligotrophic																										
	Dystrophic																										
Organ-ics	Saprophilic																										
	Facultative																										
	Saproxenous																										
	Saprophobic																										
O_2	Euoxyphilous																										
	Mesoxyphilous																										
	Oligoxyphilous																										
Tempera-ture	Euthermal																										
	Mesothermal																										
	Oligothermal																										
	Stenothermal																										
	Metathermal																										
	Eurythermal																										
Turbid-ity	Eulichtophilous																										
	Mesolichtophilous																										
	Polylichtophilous																										
	Oligolichtophilous																										
Current	Limnobiontic																										
	Limnophilous																										
	Indifferent																										
	Rheophilous																										
	Rheobiontic																										
General Habitat	Lake																										
	Pond																										
	River																										
	Stream																										
	Other																										
Specific Habitat	Epibenthic																										
	Embenthic																										
	Epipelic																										
	Episabulic																										
	Epilithic																										
	Epixylous																										
	Epiphytic																										
Emer-gence	Winter																										
	Spring																										
	Summer																										
	Autumn																										
Feeding	Predator																										
	Herbivore																										
	Omnivore																										
	Scavenger																										
Geographical Distribution	Region I																										
	Region II																										
	Region III																										
	Region IV																										
	Region V																										
	Region VI																										
	Region VII																										
	Region VIII																										
	Region IX																										
	Region X																										
	Region XI																										
	Region XII																										